MacFormat ISSUE 221 June 2010

> The top 40 ways to get more done with a Mac > Mono laser printer group test > How to watch the World Cup on your Mac > Apple iPad reviewed Printed in the UK

All your Apple needs

Mac FORMAT

>Mac >iPhone >iPad
>Issue 221 June 2010

iPAD ON TEST

Find out what it's *actually* like to use!

TURN TO P86

PLUS! iPhone OS 4: why you'll love it!

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Shoot video on your Mac

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- > ArtRage 3
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The top 40 ways to get more done on your Mac

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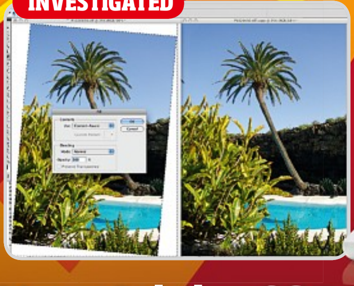

New Adobe CS5

Our top 5 features revealed!

Hack your Mac!

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World Cup 2010

How to watch it on your Mac

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to MacFormat, the UK's No. 1 Mac magazine

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iPAD ON TEST
Faster! Smarter! Better!

Subscribe to *MacFormat* to **save 35%** on the newsstand price, and get a powermonkey-classic as well. **Turn to page 28 to sign up!**

The moment *MacFormat*'s iPad arrived in the office we knew Apple was on to something, because a crowd of people eager to hold and touch one for the first time instantly formed around our desks. In the end, we realised that if we were ever going to get this issue out of the door then we would have to start firmly sending people away. We resorted to staging a 'Show and tell' hour that afternoon, where people could ask all the questions they wanted and even try the iPad – just so we could have a chance to get some work done!

The result is the issue you hold in your hands. To kick things off, we've got 40 fantastic Mac timesaving tips from Adam Banks. Even if you've been using a Mac for years, you'll find things here that you never knew before – I did! With World Cup fever in the air, we've also got a guide to how your Mac and iPhone can help make sure you never miss a game, and there's also a preview of five of our favourite features in the big new release from Adobe, *Creative Suite 5*. And another highlight to check out this issue is our redesigned Apps section.

All in all, it's another packed issue of *MacFormat*. Oh yes, and there's this thing called the iPad reviewed on page 86. You may have heard of it before?

Graham Barlow, Editor
graham.barlow@futurenet.com
twitter.com/MacFormat

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Deputy Editor

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Ian Osborne
Reviews Editor

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OS X expert

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Technical wizard

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Software guru

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Craig shows you how to get a 3D desktop on your Mac for free! p54

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Answers to your Mac questions

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Discover the latest Apple kit

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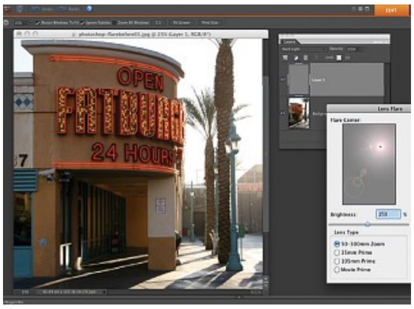

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> ArtRage 2.5
Starter Edition of the paint app

> File Sheriff 2
File extension manager app

> Cake Shop 1
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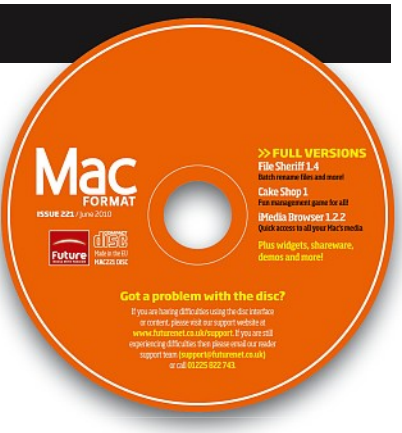
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ISSUE 221 / June 2010
Future
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MAC221 DISC
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Batch rename files and more!
Cake Shop 1
Fun management game for all!
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Plus widgets, shareware, demos and more!
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>> WHY NOT ALSO TRY?

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THE COMPLETE GUIDE TO USING YOUR MAC!
Mac presents
The Essential
Snow Leopard
Handbook

Start up

Multi-tasking comes to iPhone

iPhone OS 4.0 offers 100+ new features – but you'll have to wait for summer to get your hands on it

Multitasking, socially-connected gaming, iBooks and an all-new ads system Apple calls 'iAds', are all coming to your iPhone in a summer OS upgrade, Apple has promised.

CEO Steve Jobs previewed the features in a presentation at Apple HQ, observing, "iPhone OS 4 is the fourth major release of the world's most advanced mobile operating system. We're delivering over 100 new features, including multitasking, folders, a unified inbox, deeper Enterprise support, and an iPhone version of our iBooks reader and online iBookstore."

Jobs also confirmed 450,000 iPad sales in the first week of that product's release, over 600,000 iBook downloads and sales of 3.5 million iPad apps.

"To date we've sold over 50 million iPhones, and if you add iPod touches, over 85 million iPhones and iPod touches. If you're a software developer, that is a plum market to go after," Jobs said, observing Apple's phone accounts for 64% of US mobile browser usage. "Everything else added together is half the iPhone."

A beta version of the latest iPhone software is already available for iPhone

MLB.com
The Weather Channel
Tap Tap Revenge 2
AP
Call of Duty World at War Zombies
yelp

Apple CEO Steve Jobs lays out the new features of iPhone OS 4.0.

© Getty Images

>>MORE NEWS

For even more on the Mac, iPad and iPhone visit **www.macformat.co.uk**

APPLE IN PICTURES / First in line at the Apple Store

APPLE STORE OPENS IN BATH

Our home town gets an Apple Store, and Miles and Felix queued since 4am for its opening. That deserves a rare *MacFormat* T-shirt!

developers. This provides over 1,500 new Application Programming Interfaces (APIs) and over 100 new features for end users.

Perhaps the biggest improvement is the introduction of intelligent multitasking. When you're running multiple apps a single command invokes a dock representing all active apps to help you move between them. Multitasking also means developers can improve their apps – so a music app can play music in the background while a VoIP app can receive a phone call even when the iPhone is asleep or the user is running other apps. Apple says it has developed multitasking in such a way as to not impact device performance or battery life. "We figured out how to implement multitasking for third-party apps and avoid those things. So that's what took so long," said Jobs.

Internally, Apple has been using it for some time: "It completely changes how you use your iPhone," Jobs said.

Apple also announced a new social gaming network, Game Center, which is available to iPhone and iPod touch users later this year. The company has released code to developers that enables the creation of gaming apps offering the ability to invite friends to play a game, start a multiplayer game through matchmaking and track achievements and high scores.

Also new: Folders help keep your apps under control; an improved *Mail* offers a unified inbox, fast inbox switching and threaded messages; mobile device management; wireless app distribution and more. Folders will enable users to simply drag one app icon onto another to create a new folder, so an iPhone can now support over 2,000 apps.

For business users, iPhone 4.0 offers better device management, security and support for complex passcodes. Enterprise users may also host and wirelessly distribute in-house developed apps to employees.

As we go to press, there's talk of banning apps which call on official iPhone APIs through non-Cocoa code, which could mean the end of code that lets developers create iPhone apps outside of the SDK.

OS4 HIGHLIGHTS

• Make Calendar events out of Mail message information • Playlist creation in the iPod App • 5X zoom in the Camera app • SMS now has a character count for messages • Support for Bluetooth keyboards • Geotagging & places in photo app

iPhone OS 4 works with iPhone 3G, iPhone 3GS, the second- and third-gen iPod touch, and later, iPad. Not all features are compatible with all devices – multitasking is available only with iPhone 3GS and the third-generation iPod touch (late 2009).

> *"The launch of the iPad in the US did more than just bring a new product to market…"*
>
> **Christopher Phin waxes creative about the iPad's great potential.**

Apple talk

Who's saying what?

Steve Jobs
www.apple.com
"It's been a privilege to know and work with Jerry, and I'm going to miss him a lot."
Jobs pays his respects to recently deceased Apple board member, Jerry York.

Jerry York
www.apple.com
"Frankly, I wish I had resigned then."
In January 2009 Apple board member slamed Jobs for hiding cancer.

James Cameron
www.avatarmovie.com
"If someone wants to watch it on an iPhone, I'm not going to stop them, especially if they're paying for it, but I don't recommend it."
Avatar director says his future isn't handheld.

Ron Szymanski
www.army.mil
"The Army would like to leverage Apple's experience when designing military apps."
US Army lead computer scientist looks to Apple for future tech.

Rupert Murdoch
www.newscorp.com
"All media is going to go onto the iPad, whether it be music or books or newspapers or movies."
World's biggest media magnate clearly sees an iPad future.

Have you heard any great Apple quotes? Email us at macformat@futurenet.com

>> IN THE SPOTLIGHT

Mum's the word…

Christopher Phin

The launch of the iPad in the US did more than just bring a new product to market; it also brought into focus an argument about the nature of openness in computing, and the extent to which this openness is both a good thing and a prerequisite catalyst for creativity. (This column's not about that debate; to get up to speed read Cory Doctorow's post at **http://bit.ly/aPO2KT** and Adam Banks' articulate, moderate response at **http://bit.ly/dsx7sm**).

While I think Cory is wrong – idealistic, if you like, but for irrelevant reasons – I'm glad he and people like him are there; I think it's important for the cultural and humanitarian health of the world that we remain a creative species, and Cory's right to draw our attention to the danger of trading-in our creative hunger for the convenience of a pretty package.

One remark he made irritated me, however. He took issue with the use of 'one's mum' as a shorthand for the kind of user to whom the iPad might appeal. "It's amazing how many tech people have a low opinion of their mothers," he said.

> *"I have nothing but respect, but many of my parents' generation don't understand a traditional GUI…"*

The fact that this comment is made in parentheses suggests to me that Cory isn't especially serious about his point; it's part of the flow, part of the rhetoric. But it's a cheap shot – anti-elitist for silly rather than laudable reasons.

I do refer to the 'mum' user, but it's not intended to be pejorative. I have nothing but respect for the intelligence and ability of either of my parents, but it's objectively true that many people of their Baby Boom Generation, simply by virtue of the fact that they didn't grow up in a world saturated by the paradigms that characterise desktop computing, don't have intuition with or the understanding of a traditional GUI. This is neither good nor bad. In using the 'your mum' shorthand, I'm not implying a low opinion of your, my or anybody else's mum.

Unless, of course, I continue the sentence with "…is so fat, when she fell down the stairs, I thought *EastEnders* had finished."

The particular gag that ended this column was crowdsourced from Twitter. If you don't like it, blame @winstano.

Apple's iPad seems set to transform many industries, from music to medicine, as early reports suggest company has a new hit on its hands.

>> iPAD NEWS

Now we have an iPad planet

iPad sells out as plans grow for its future

Apple sold out its initial US iPad stocks within three weeks of taking pre-orders, selling an estimated 120,000 units in a week.

Success in winning support from most major book, magazine and newspaper publishers in the US boosted interest in Apple's new product.

Apple co-founder Steve Wozniak told *Newsweek*, "iPad could lower the cost of acquiring computers for students. I think it's going to be huge in the education market." Students want an affordable Apple product, "Now they have the ideal thing. They can go to college and someone may have a whacked-out $6,000 laptop, but the guy with the iPad will get all the attention."

He spoke as Pennsylvania's Seton Hill University announced plans to offer free iPads to students starting this year.

Apple chief designer Jonathan Ive told Stephen Fry in a *Time* report, "If it works beautifully, it should also work robustly."

Investment blogger Daniel Tello estimates Apple reached 240,000 iPad sales on pre-order, based on data collected at Investor Village's AAPL Sanity message board. Gizmodo claims Apple Germany saw 250,000 iPad pre-orders in March.

Wired editor Chris Anderson told the *LA Times*, "Tablet computers are going to reset standards on how we interact with digital media and how we pay for it."

Music industry sources predict significant future iPad plans, suggested by Gorillaz' recently released rich multimedia iTunes LP version of their new album, *Plastic Beach*. Packed with videos, images, a game and more, it hints at future immersive experiences.

In the comics industry, too, Disney's $4 billion purchase of Marvel last year is expected to yield a plethora of comic-book titles for the iPad.

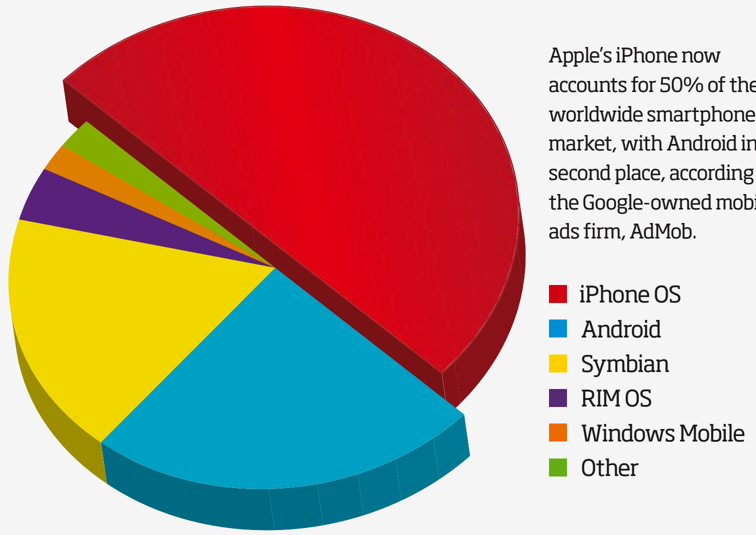
Adobe Flash isn't supported, but does this matter? US firm Brightcove's solution replaces Flash video content with HTML5 versions. Brightcove clients include *The New York Times* and *Time* magazine. Apple's refusal to support Flash on the iPhone and iPad has initiated moves to implement HTML5 across the web – even TEDTalks has introduced its own HTML5 iPad app. ●

>> APPLE IN NUMBERS

65%

Businesses who say trouble-shooting's cheaper on a Mac.

APPLE IN NUMBERS / The lion's share



Apple's iPhone now accounts for 50% of the worldwide smartphone market, with Android in second place, according to the Google-owned mobile ads firm, AdMob.

MORE iPHONE OS 4 NEWS

Apple's advertising agenda revealed

Apple plans an advertising revolution

Apple is preparing to introduce iAds a mobile advertising solution, as part of the iPhone OS 4 update.

According to Apple, iAd, "combines the emotion of TV ads with the interactivity of web ads." The ads will display within applications on the iPhone OS platform, so you won't need to leave an application to view the ad. Once the ad is closed you'll be exactly where you left off in the app. While this will be of huge interest to developers, some end users have expressed concern that there will be little benefit to consumers.

Apple's new platform is built on top of Quattro, the mobile advertising firm Apple acquired in January this year. That $275 million acquisition came shortly after Google's November '09 purchase of AdMob. Apple had been negotiating to purchase AdMob, before Google coughed up $750 million to acquire the firm.

"We remain focused on delivering more engaging, relevant and useful ads to mobile devices," said former Quattro Chief Executive Andy Miller, now Apple's Mobile Advertising VP. "People are using apps to get to data on the Internet, rather than a generalised search," said Steve Jobs, Apple's CEO. "iAds are built into the iPhone OS".

iAds offer a 60% revenue split, with 40% going to Apple, and use HTML 5-based technology, enabling powerful interactivity.

Business Week in January noted the quantity of customer data Apple already has for its 500 million iTunes customers. It knows which apps, podcasts, videos and songs people download, along with credit card data and personal details. "That gives Apple a chance to blend advertising and e-commerce in new ways, after the acquisition of Quattro," the report said. ●

APPLE IN NUMBERS

$240 million

Apple paid Samsung to secure iPad screen production.

HOT OR NOT?

The latest word from the Apple rumour mill

HOT: Apple plans multiple iPads
Whispers are claiming Apple will diversify the iPad range quite quickly, offering multiple size models and, when the technology is up to speed, ePaper-based foldable models.

HOT: Apple to ship HDTV
Apple apparently plans to introduce an iTunes-friendly internet-connected HDTV by 2012 (a TV with Apple TV inside). It makes sense but we're waiting and seeing…

NOT: Jobs makes up with Google
A meeting between Google boss Eric Schmidt and Steve Jobs may have looked cosy, but Apple won't give up the smartphone market to Google's Android army without a fight.

NOT: 1TB MacBook Pro to come
Toshiba introduced a 1TB drive for use in laptops, sparking speculation new MacBook Pros are coming. They are, but 1TB won't be available until at least 2012 we reckon.

Apple on TV

The Mac is ready for its close-up

The hit Channel 4 TV series *Shameless* recently featured Apple's tell-tale white headphones in the ears of exercise-obsessed pub landlady, Karen Maguire.

If you've spotted a Mac on television, then email macformat@futurenet.com and tell us all about it!

>> ACROSS THE POND

Move over, mouse…

Susie Ochs

One thing I'm really going to miss an awful lot is my mouse. Let's face it, the mouse is an endangered species in the kingdom of Apple. Eventually they'll kill it off like the floppy disk, FireWire 400, and buying a whole CD to get one hit song.

The Magic Mouse is halfway there. It's training us to use multi-finger gestures on its surface, like you would on a trackpad or a touchscreen device running the iPhone OS. And it's certainly the flattest mouse I've ever seen. Maybe that's the magic in its name. It'll keep getting flatter and more like a trackpad until one day it'll just disappear up into a little puff of smoke.

And then of course there's the iPad. The 9-inch touchscreen is just a dream to use, and makes it so effortless to interact with all the different apps. Well, until it's time to type more than a couple of words at a time. When I got mine, I paired it with my Apple Wireless Keyboard, launched the iPad's Notes app, propped it up against a suddenly ancient-looking laptop stand, and started typing away. (Don't worry, I went out and invested in a proper dock the very next day.) The experience was pretty great with the iPad looking like a lovely, impossibly thin, awesome, portable display. But silly me – between typing bursts I kept reaching for the mouse, forgetting I had to reach out and touch the iPad's screen itself. And suddenly my gorgeous shiny display was smudged.

> *"The experience was pretty great with the iPad looking like a lovely, impossibly thin, awesome, portable display"*

Of course, I wouldn't benefit whatsoever from being able to use a mouse with my iPad. (Still, I'm sure someone will pull it off eventually, even if it requires jailbreaking the thing.) And my Mac's mouse isn't going anywhere just yet, but, undoubtedly, in the year to come my ratio of point-and-click to tap-and-swipe can only continue to plummet as Apple and its army of App Store devolpers keep expanding what my iPad is capable of.

The future's right in front of me, I just need to reach out and explore it.

Susie Ochs is Senior Editor of *Mac|Life*, and San Francisco's premier tech writer, thrill seeker and burrito enthusiast.

>> APP NEWS

Kindle for Mac

Amazon vs Apple: the next chapter…

Amazon has introduced *Kindle for Mac*, a free app that enables you to read Kindle titles on your Mac. Available now in more than 100 countries, the application is the twin of Amazon's existing iPhone (and iPad) app, which also supports Kindle titles.

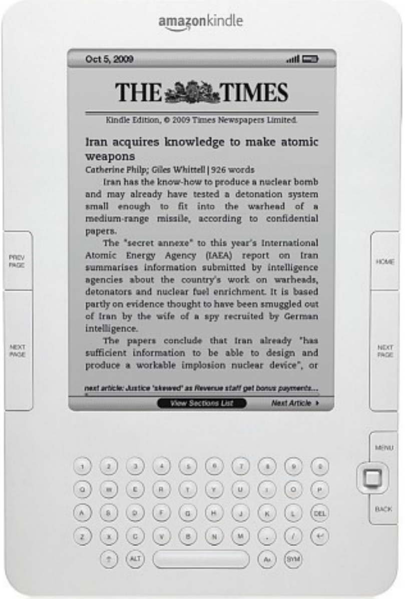
The software uses Amazon's Whispersync technology, which automatically saves and synchronizes bookmarks and 'last page read' across devices – so you can read a Kindle title on your Mac, and then open the volume on your iPad or iPhone to be taken to the page you last stopped reading at.

Jay Marine, director, Amazon Kindle, explains: "For customers around the world who don't yet have a Kindle, *Kindle for Mac* is a great way to access and read new releases as well as their old favorites."

Amazon offers huge numbers of titles for sale to Kindle and *Kindle* application users. One nice touch for Kindle sales is that users can access their libraries of previously purchased Kindle books on Amazon's servers for free.

The colour *Kindle for Mac* software supports 10 font sizes, lets you adjust words per line, add and synchronize bookmarks, view notes and highlights.

Several features are to be added in the future, including text search and the ability to create and edit notes and highlights. ●



Oct 5, 2009

THE TIMES

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Iran acquires knowledge to make atomic weapons

Catherine Philp; Giles Whittell | 926 words

Iran has the know-how to produce a nuclear bomb and may already have tested a detonation system small enough to fit into the warhead of a medium-range missile, according to confidential papers.

The "secret annexe" to this year's International Atomic Energy Agency (IAEA) report on Iran summarises information submitted by intelligence agencies about the country's work on warheads, detonators and nuclear fuel enrichment. It is based partly on evidence thought to have been smuggled out of Iran by the wife of a spy recruited by German intelligence.

The papers conclude that Iran already "has sufficient information to be able to design and produce a workable implosion nuclear device", or

next article: Justice 'skewed' as Revenue staff get bonus payments...

View Sections List Next Article ▸

Kindle's new app takes its software to Apple.

Stockwatch

A look at the world of Apple business with Clem Chambers

iPad and a broad Nasdaq rally is driving Apple ever higher – happy days for Apple stockholders. The big rule of investing is "don't fight the tape". Apple stock is too expensive, but that won't stop it getting more expensive. That's the rule of bubbles and stock stars.

Apple is now the fourth most highly valued company in the US. However much you love Apple, this doesn't make sense. Apple is a great company with great products, but is $1 of its sales really worth 10 times that of Wal-Mart?

A 20% rise would see it in the number-two slot ahead of the arch-enemy Microsoft. A 50% rise would see it pass the might of Exxon Mobil to the number-one slot. Impossible? No. Unlikely? Yes. Historically, Apple stock falls after a major product launch. But who knows this time it may be completely different.

Clem Chambers is CEO of ADVFN, Europe's leading stocks and shares website.

>> RETAIL NEWS

Square dance

Computer Warehouse has a new owner

Computer Warehouse (CW), has been taken over by London-based reseller, Square Group Ltd.

CW has been supplying Apple products and services for two decades through multiple channels. Its pro-focused arm, CWPro, has been acquired by Academia.

CW Chairman Jonathan Cole said, "I am delighted that Square has added the Computer Warehouse brand to its growing group of companies. They will be able to deliver the first class service our customers have come to expect from us and address the needs of a new generation."

Darren King, Square's MD, said: "We intend to use CW's vast experience to push our online presence forward under the Computer Warehouse brand."

A much tougher market and tougher competition between online stores in the consumer electronics and technology space, plus a plethora of other retail outlets are thought to have contributed to CW's collapse.

King reflects, "There's so much pressure on pricing from customers (particularly in this recession), that when there's no relationship (as with mail order) the only thing you can do to retain business is further discount prices."

Computer Warehouse.co.uk

SQUARE

Computer Warehouse makes a fresh start under new leadership.

"Square looks forward to forging strong relationships with CW's existing business and education clients," King said.

Square says customers who have already paid for goods from CW that have not been delivered, should make a compensation claim with the liquidators.

Customers who made credit card purchases "should check with us first to see if their cards were charged, as some appear to have only been authorised," King said. "If they were charged and have not received the goods, they need to claim under the banks Cardholder Protection scheme for a refund." All other orders must be cancelled as they won't be met. ●

>> APPLE IN NUMBERS

300,000

iPads shifted in US on first day at retail.

>> APPLE EVENTS / What's going on?

26 MAY

INTERNET WORLD
London
27-29 April
Long-running European internet show offers some insight into what the experts are dreaming up for the Web 2.0 world.

WEB 2.0 EXPO
3-6 May
O'Reilly Media's annual San Francisco event is key to anyone involved in developing internet services and apps.

STREAMING MEDIA EAST
New York
11-12 May
This streaming media event grows ever more important as Apple and its rivals ramp up this digital age.

IPEX
18-25 May
This important graphics, arts, publishing and press show opens at Birmingham's NEC this May.

MACFORMAT
Issue 222, 26 May
How will the UK iPad launch go? When's Apple's next Mac upgrade? We'll let you know all about it in the latest issue.

E3
15-17 June
The Electronic Entertainment Expo is a big event for the video games industry, expect more Apple-tinged news than before this year.

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Website

Visit www.macformat.co.uk to read the latest blogs and Apple news.

Podcast

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Stations
BBC Radio 1Xtra
BBC Radio 1
BBC Radio 2
BBC Radio 3
BBC Radio 4
BBC Radio 5 Live>>
<<BBC R5LiveSportX
11:45
BBC Radio 1
Now playing: Frontin' performed in BBC Radio 1's Live Lounge by Jamie Cullum
Source
Volume
Settings
Apps
Signal
Power
PURE
Sensia
Mute
PURE

Listen to radio via FM, DAB or internet with the PURE Sensia.
Photography by Joby Sessions

Win! A fantastic PURE Sensia digital radio

PRIZE WORTH £500!

Grab a PURE Sensia, featuring internet, DAB and FM radio

PURE's Sensia is an incredibly versatile radio. You can listen to analogue FM broadcasts with RDS (Radio Data Stream) to display the time, station and programme information. DAB and DAB+ are catered for, and you can connect your Sensia to your Wi-Fi network and listen to internet streaming broadcasts or stream music from your Mac. There are 10 FM presets, 30 on DAB, and after registering your Sensia online, you can bookmark unlimited internet radio stations. Sleek and stylish, it looks great in just about any room too.

Yet it's more than just a radio. The Sensia boasts a 5.7-inch colour touchscreen that can display custom PURE apps such as weather, news, Picasa, Facebook and Twitter. It's like having Dashboard widgets on your sound system. And we've got two to give away.

The question

To stand a chance of winning one of these amazing prizes, just answer this question:

The PURE Sensia offers FM, DAB/DAB+ and internet radio. But what does DAB stand for?

A) Dynamically Altered Bass
B) Digital Audio Broadcasting
C) Data Amplification Band

For more information on the PURE Sensia, see www.touchmyradio.com. For other exciting PURE products, go to **www.pure.com**.

» HOW TO ENTER

- To enter, text SENSIA, followed by a space then your answer (A, B or C), space, then your name and address to 87474; or enter via our website at **www.macformat.co.uk** and click on the **Competition** link.
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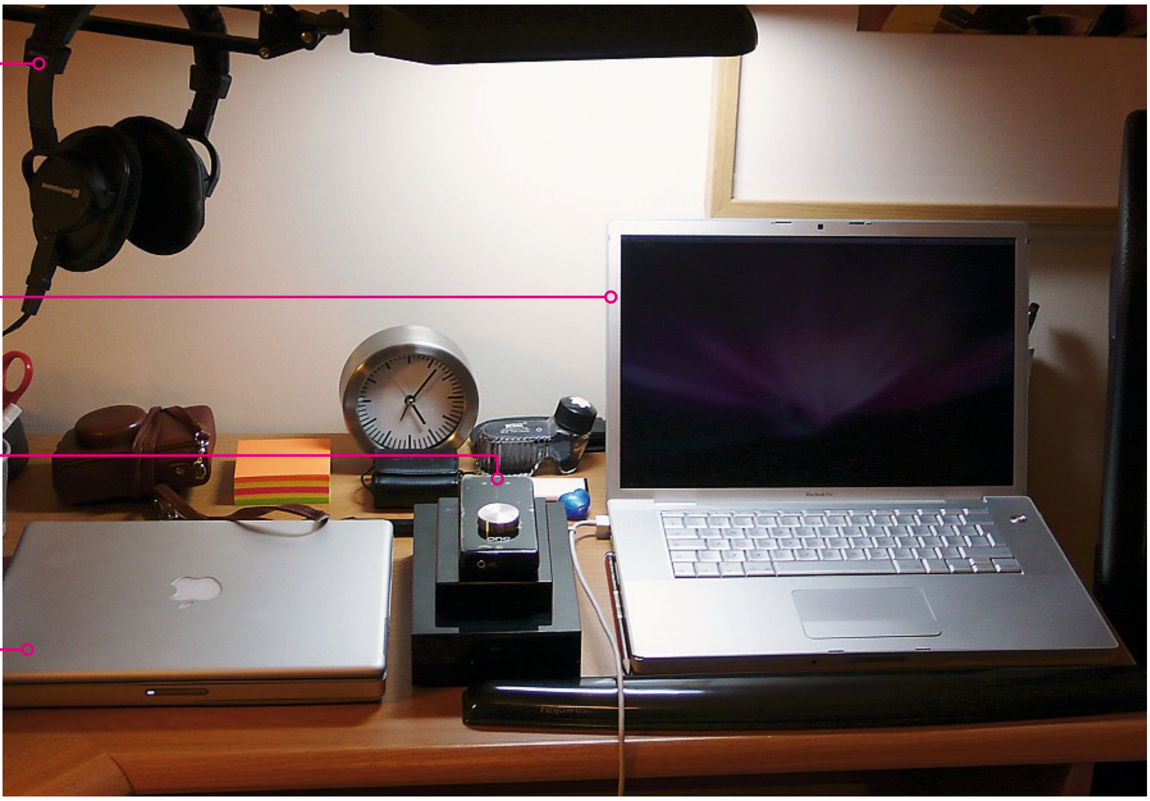
Me&MyMac

MacFormat readers share their beloved Mac setups

>>CONTACT US
Want to share your Mac setup with us? Send a photo of your kit to **christopher.phin@futurenet.com**



Beyerdynamic DT 250 headphones
As well as Bose earphones, Nathan relies on these for checking his music.

MacBook Pro 15-inch
These MacBook Pros may look a little dated, but they're plenty powerful.

Apogee ONE Audio Interface
Balanced on top of LaCie hard disks, this is great for mics and instruments.

PowerBook G4 867MHz
Runs *Sibelius 6*, *GarageBand Lightroom 2*, *Photoshop CS4* and *Logic Pro 8*.

>>PROFILE

Name: Nathan Doyle
Occupation: Tutor and musician
Been using a Mac for: Around 20 years
Favourite hardware: MacBook Pro
Favourite software: GarageBand

Nathan Doyle is an electric guitar tutor by day and a recording artist and studio musician by night, so he relies on his computers all the time.

"I discovered Apple during the many studio sessions I played on throughout the 90s, and so, over the years, came to know it was a name I could rely on," he says. "There seemed this odd stigma attached with Macs though; everyone I spoke to seemed to be pretty negative about amateurs getting their mitts on them, saying if you didn't know how to use them then they were hard work; what rubbish!"

Around five years ago, Nathan sold his recording desk, aiming to build an all-powerful PC complete with multi-effects. But the PC couldn't cope with his needs. "I soon realised that almost everything I was asking of my PC was taking forever or causing crashes," he tells us, "then I managed to acquire the mother of all viruses and gave up!"

> *"Loads of colleagues were selling their old equipment in favour of a MacBook Pro and Logic Pro 8…"*

Thankfully, by this time Apple had a few new tricks up its sleeve. "Loads of my fellow session colleagues and studio owners were selling all their old equipment in favour of a MacBook Pro and *Logic Pro 8*; that's exactly what I did too. I purchased a MacBook Pro in 2006 and within hours of opening the box was recording and sending snippets with *GarageBand*, constructing my own website with *iWeb*, organising photos with *iPhoto* and importing to *iTunes*."

So what's next for Nathan's impressive tech collection? "I have recently purchased the Apogee ONE, which looks really fantastic and which I aim to use as much as possible. I also have *ToonTrack EZdrummer* and *Metal Foundry* on order for more complex programming. Next will be a set of Mackie monitors, but for now I'm using my trusty Beyerdynamic DT250 headphones, which I seem to have had forever.

It's obvious that Nathan is more than happy with his current Mac setup. "Recording lessons, demos and so on has never been easier," he says. "I can open *GarageBand* for lessons or backing tracks, or if I want more flexibility I use *Logic Pro 8*. To keep everything safe, I've invested in the mighty 1TB LaCie external hard disk, which I use for *Time Machine* backups."

That's music to our ears, Nathan! **CP**

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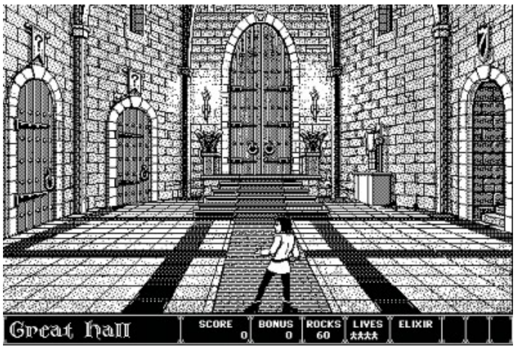

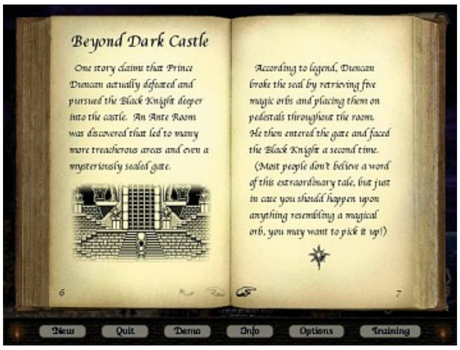

Beyond Dark Castle

One story claims that Prince Duncan actually defeated and pursued the Black Knight deeper into the castle. An Ante Room was discovered that led to many more treacherous areas and even a mysteriously sealed gate.

According to legend, Duncan broke the seal by retrieving five magic orbs and placing them on pedestals throughout the room. He then entered the gate and faced the Black Knight a second time.

(Most people don't believe a word of this extraordinary tale, but just in case you should happen upon anything resembling a magical orb, you may want to pick it up!)

6

7

Above Back in time: Mark's Dark Castle is one of the few original Mac games afforded 'classic' status.

Right Videogame remix: Return to Dark Castle brings the original game to modern Macs.

15
MULTIPLIER
01 X SCORE
MINE
FUEL
RESERVE
MAIN TANK
CATCH SPECIAL WEAPON
204
SPEED
SCORE
0070105

LVL 51
226,850
BURSTS TO GO 14
x3

Above Star*Burst: This game is ideal for iPhone and you can even send cards to Facebook.

I use my Mac for creating games

Gaming legend Mark Stephen Pierce thinks the iPhone is a game-changer

»PROFILE

Name: Mark Stephen Pierce
Location: Austin, Texas
Occupation: CEO of Super Happy Fun Fun
System(s): An iPhone and lots of Macs
Web: superhappyfunfun.com

MacFormat: What's your Mac history?

Mark Pierce: I co-founded MacroMind, where I co-designed *VideoWorks*, which became *Director*. I remember my partners there waiting in line at an Apple store for the 128k Mac to come out! I held onto my Macs way into the 1990s, by which time I was at Atari so I had to abandon them.

MF: Before then, you created the classic Mac game *Dark Castle* – how did that come about?

MP: I was asked to create a game by Silicon Beach, and I suggested a medieval theme because I knew it'd sell well. Our meeting was one of the most inspired days I've ever had – they had this flip chart and I literally drew out the entire game on the fly. After then, I'd mail the programmer mock-ups in *MacPaint* and animations in *VideoWorks*, and we did the game in six months. The programmer was Jonathan Gay, who invented *Flash*!

MF: How does today's creative environment compare to then?

MP: The energy around the Mac back then – which showed a different way to everyone – is similar to what I'm seeing today in the iPhone and iPad. Likewise, I worked in a wonderful environment at Atari for 15 years, with small teams creating innovative games, and that's now back in the form of the App Store. The iPhone's been a godsend for me – you don't have a publisher telling you what you can do, and the people buying games are the only filter. The iPhone's a game-changer, and it brought me back to Apple. All our games are designed on Macs.

MF: What games are you working on?

MP: We recently released maze puzzle game *Ace Yeti Trapper*. There's also *Star*Burst*, an evolution of my Atari game *Klax*. Gems march towards you and must be flipped upwards and matched. When updating the game, we inverted the playfield so it works on the iPhone, and encourages people to make patterns in the gem pit by awarding collectable cards that can be posted to Facebook. I'm hoping to get *Dark Castle* into production for iPhone; I like its side-on view and puzzles. But it was brutal, so it'll be a redesign that won't be so tough! ●

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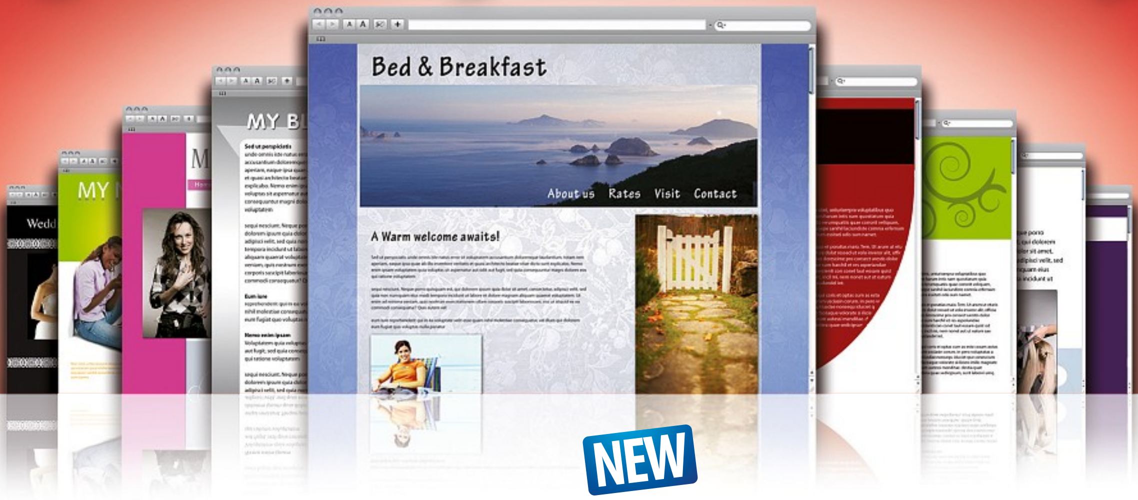

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Gadgets

The hottest kit, coming soon. Here's what Apple is up against

Gorillapod Magnetic

£19 www.joby.com

What is it? A Gorilla tripod for your compact camera, featuring flexible legs and magnetic feet. You can bend the legs to accommodate uneven surfaces or wrap them around a pole or a bar. You can also anchor it to any magnetic surface.

When's it due? Out now.

Why are we excited? We loved the GorillaMobile for iPhone, and magnetic feet give the camera version a new twist.

MoviePeg

£5 www.movie-peg.com

What is it? A simple yet elegant stand for the iPhone or iPod touch. It can hold your device in landscape mode for watching a movie or for use as a handy clock display, or in portrait mode for hands-free viewing. It's available in six movie-inspired colours.

When's it due? Available now, online.

Why are we excited? Sometimes the simplest ideas are the best. MoviePeg is versatile, cheap and incredibly useful.

MoviePeg
MoviePeg
MoviePeg
MoviePeg
MoviePeg
MoviePeg

Vers Wood Case for iPad

$80 (£53) www.versaudio.com

What is it? It didn't take long for iPad accessories to arrive. This one's a beautiful design, built by craftsmen using woods taken from a renewable source. It's hand-carved from various hardwoods or bamboo, steel-reinforced for strength and has openings for your dock connector and volume control.

When's it due? Should be available online by the time you read this.

Why are we excited? It looks gorgeous. If you're after an iPad stand that matches your wooden furniture, you could do a lot worse than invest in a Vers iPad case.

iMac Blue Bondi Keyboard Clock

$35 (£23) www.geekware.ca

What is it? The ultimate gift for a Mac geek! Built from an old Bondi-Blue iMac keyboard, as bundled with the original iMac back in 1998, the clock features a quartz movement and runs on a single AA battery.

When's it due? Order now from the States

Why are we excited? Come on – do you really need to ask?

SNOOZE I DIMMER
iLuv
7:00
8:30
RADIO
PM
10:35
AUG 26 2010 THU
iLuv

iLuv Premium iMM178 Vibe Plus

$90 (£60) www.i-luv.com

What is it? The latest radio alarm clock from iLuv's 'Shake & Awake' range. It boasts an FM tuner with 10 presets, an iPod dock (iPhone compatible) and a bed shaker that tucks under your pillow and vibrates even the heaviest sleepers out of their dreamy slumber.

When's it due? Out now in the States.

Why are we excited? It looks great for getting you out of bed on cold winter mornings, though we'd rather pay a little more and get DAB and internet radio along with the analogue FM tuner.

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EXILIM OPTICAL 3x
CASIO
EXILIM OPTICAL 3x
EXILIM
2.13m/7ft. SHOCK RESISTANT
OCK RESISTANT

Casio Exilim EX-G1

£280 www.casio.com

What is it? A rugged compact camera designed to take the knocks. Available in red or black, the Exilim EX-G1 is shock-proof, offers 12.1 effective megapixels and gives you a wide-format (16:9) movie function at 848x480 pixels.

When's it due? Out now.

Why are we excited? It's a good-looking compact that can take the knocks. Just the thing for hikers, sports fans and anyone who needs a hard-wearing camera.

Feedback

>> CONTACT US

Whatever your Mac-related cares, concerns or calamities are, let us know about them by contacting us on the following email address: **macformat@futurenet.com**

Let us know what you think about your Mac, MacFormat and everything Apple

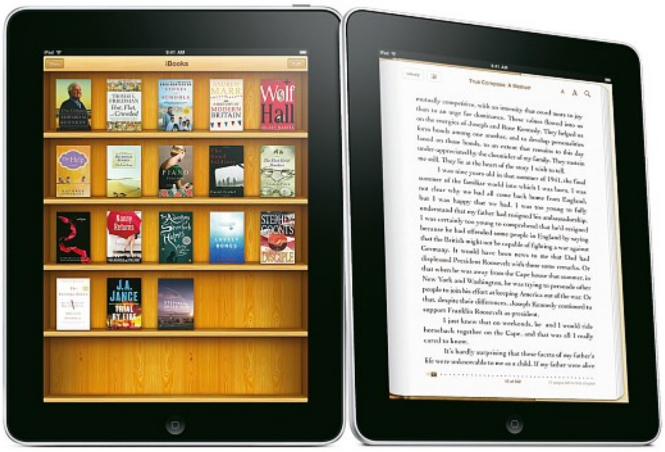
The reader

I read your feature on ebooks (issue 220) with some interest. I've always been unconvinced about how the traditional paper book can convert over to an ereader. My main concern is with the reading experience rather than anything else. I think the concept (and now reality) of carrying your entire library with you is a really exciting one, but what about the feel of the paper, the turning of the page and that all-important bibliophile's ritual – the breaking of the spine?

I think the Kindle with its E Ink technology is respectful of the needs of a bookworm, and has attempted, as far as it can, to emulate the experience of reading a paper book. But is the iPad really the right vehicle for reading such large volumes of text with its shiny screen, sharp edges and frustratingly short battery life (not great on a 12-hour flight)? It seems to be jumping on the ereader bandwagon in order to add another string to its bow, rather than considering factors such as eye strain, which the Kindle attempts to alleviate with eInk.

For now at least, I'll be sticking to my trusty old paperbacks. They're cheaper, I can lend them to my friends and I can read them in the bath!

Rosie Darran



We're still waiting for Apple's eBooks store to open here in the UK.

MacFormat Replies: You can see what our reviewer Susie Ochs thought of the iPad on page 86, this issue. You raise a valid point about the Kindle's E Ink being kinder on the eyes, but plenty of people read text on a MacBook all day without a problem, which will be a similar experience to using an iPad. And let's not forget that the iPad does more than just function as an eBook reader. Here in the UK, of course, we're still waiting for the iBooks Store to open, so it's a moot point at the moment.

Not a Pages fan

I'm unable to share the enthusiasm your colleague Rod Lawton demonstrated for the application *Pages* in the May issue of *MacFormat*, since the drawing and database capabilities that existed in *AppleWorks* have been lost.

>> STAR LETTER / Genius service

I made an appointment with Apple's Genius Bar at their Southampton West Quay Apple Store and turned up late on Friday afternoon with a dead MacBook. Having waited just a few minutes, my notebook was investigated and I was told that the hard drive had seized and would have to be replaced.

Unfortunately, Apple no longer make the original 60GB drive and it seemed they would have to replace it with the much larger capacity 160GB drive. There was also a problem with the trackpad which, if touched, froze the computer.

The following day, Saturday, I collected my MacBook, which to all intents and purposes appeared to be a new machine – new hard drive, new case, new trackpad and keyboard, the whole thing immaculately polished and cleaned.

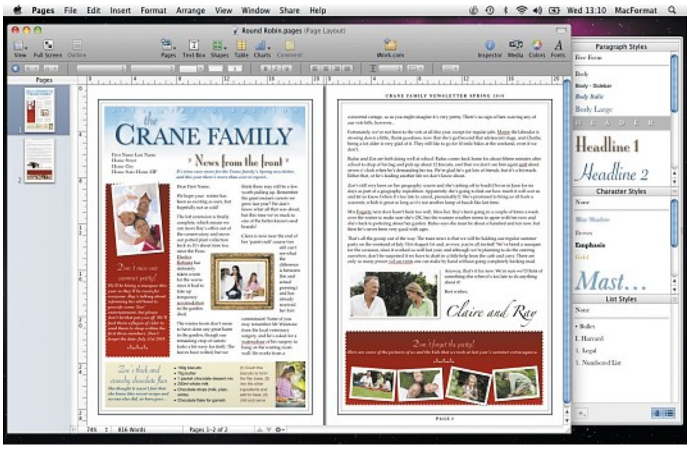
I do believe I was given a fantastic service, all in under 24 hours; and I do mean 'given'. The cost to me? Nothing, zilch, nada! Well done Apple for once again making me grateful I use a Mac. Macs don't often go wrong, but it seems that on the rare occasions that they do, they remain a pleasure to have.

Alan Witherby

MacFormat Replies: It's great to read about great customer service like this, but readers, please don't assume that Apple makes a habit of handing out free hard drives – we're guessing Alan's Mac was covered by AppleCare or under warranty.

>> STAR LETTER

Email all your letters to us at **macformat@futurenet.com** If yours gets picked as the *MacFormat* Star Letter, you'll be sent a fantastic EyeTV Hybrid. It comes with analog and digital tuners, so you can use it to put TV on your Mac wherever you are in the country!



Pages has drawing tools similar to AppleWorks hidden away in its menus.

The drawing capability offered in *AppleWorks* was and remains particularly useful, and some examples of the diagrams I've created with it are provided as attachments.

For me, *Pages* is a huge disappointment, and given Apple Mac's commitment to education I'm really surprised.

Dr Stan Owers

MacFormat Replies: You're right, a lot of people still miss *AppleWorks* on the Mac, but while *Pages* doesn't have all its functionality, it does have drawing capabilities. The drawing tools don't work in exactly the same way as they do in *AppleWorks*, but they are there in *Pages*. From the Insert menu you can just choose the shape you'd like to add. It's easy to add rectangles containing text with arrows to link them, since both Rectangle and Lines with Arrowhead are supplied among the default shapes. There's also a 'Draw with Pen' option included for freehand drawing.

In fact, we're sure we would be able to re-create all your diagrams with ease. You're correct about the database functionality, though.

Shopping around

I'm sure this won't make me very popular among your readers, but what is the fuss with the ubiquitous iPhone? This seems to be a phenomenon sweeping the world. iPhone users should be aware that other smartphones exist and are as good, if not better! Yes, you could argue it's all about the App Store, but the majority of these apps are either silly pointless things or are making us incredibly lazy. You have a phone, so phone up for a pizza - don't use the pizza company's app to order it online.

Ridiculous!

Just a few years ago, people used their mobile phones for making calls, and then texting became popular, and then so did the camera function. And now it's about this constant ability to be online, as well as collecting pointless apps. It's undoubtedly a good thing to always have a phone on you for making calls without needing to find a phone box (remember those?), but we're able to manage without carrying our cameras with us, let alone a light saber, a mooing cow and a dozen albums that you always skip through to get to the best track anyway.

I think the iPhone is verging on the vacuous, and is more about aesthetics. We just don't need the majority of things it has to offer. They can also be expensive and the battery life is shocking. I say to all the iPhone devotees, next time shop around, you'll be surprised at what else is out there.

Rob Dingle

MacFormat Replies: We're guessing an iPad isn't high on your want list either, Rob?

Lost your bottle?

It seems to me there's a lot that Apple could learn from the humble plastic bottle. I can take the top off my Buxton Spring mineral water bottle and fix it to a Pepsi bottle with ease. Fancy a change? Then Sainsbury's Thirsty Planet water bottle fits the same bottle top.

On my Mac I have a plethora of different leads and extension cables, some of which talk to each other nicely and many of which don't. And while we're on the subject, why do so many digital cameras seem to have so many different versions of micro-USB?

Come on Apple, sort it out!

Heidi Thompson

MacFormat Replies: Apple not unique, but perhaps are more guilty than most tech companies when it comes to proprietary connection standards for its peripherals. Some *MacFormat* readers will remember (perhaps not very fondly) the days of the proprietary Apple Display Connector (ADC) for Apple-only

9:42 AM
Voice Control
call
play
shuffle
Cancel
315° NW
8 of 38
Cancel
Trim

Waste of space or essential for modern life? Let us know what you think.

Twitter @#! talk

From the Twittersphere

We asked:
Will you be getting an iPad Wi-Fi or an iPad Wi-Fi + 3G?

@jonesemma91
"iPad Wi-Fi. Don't need 3G as have iPhone contract so will use the iPhone when Wi-Fi isn't available."

@steveffisher
"I'll probably get the Wi-Fi one - no 3G coverage on any provider round here."

@jobbogamer
"Neither, I already have an iPhone and a MacBook - why would I spend money on something that I can already do with those two?"

@harryjatkins
"iPad Wi-Fi for me, just seems like I would use the iPad more in the house than out and about."

@GBMDT
"It's got to be the 3G for me. Will be using it to watch Sky Sports on the way to and from the office!"

@sethlilly
"Wi-Fi. The use case for 3G is non-existent for me. I'll sync/buy before outings + use Wi-Fi elsewhere."

@daveinthecloud
"The iPad Wi-Fi + 3G will be my choice, more for its GPS capability than the 3G."

@jockselin
"I'll get the cheapest one, and sell it to my girlfriend when v2 is out. Master plan!"

You can find out what we're up to each month by following the team at Twitter.com/MacFormat

monitors, and before that the DB15 connector on the Apple Studio Display. The relatively new Mini DisplayPort used in the current range of MacBooks hasn't been widely adopted by the rest of the industry yet, although it is a more open standard, so it could just be a matter of time.

That's magic!

So, anyone who watched the iPad launch video might have noticed the overuse of the word "magic" to describe the device and its apps. Obviously, the audience knows better – it's not magic, it's aluminium and glass and silicon and software.

But when you think about it, there is magic in the iPad. Not the technology part, as *Star Trek* as it is. But the real magic is in the marketing, the spellbinding cast, the huge amount of reaction, argument, dissection and debate that started that same day and has become increasingly louder and louder through the eve of the American release.

The hype. The sheer number of people ready to hand over their credit card numbers for a first-gen device that offers a steady stream of revenue back to the same company that sold it to you in the first place – before you'd even seen it in person. Now that's magic!

Stan D Cavendish

MacFormat Replies: Let's not forget that beyond the hype surrounding the iPad there's a product here from Apple that has the potential to challenge the traditional concept of a home computer. And let's also not forget that the majority of the hype is purely online, therefore it's bypassing a lot of people entirely! Fortunately, you can read our definitive iPad review, starting on page 86 this issue, and make your own mind up about the device's potential.

Hype or hypnotic? Get up to speed on page 86.

You can think of Aperture 3 as the next step up from iPhoto.

Photo editing

I have been using a Mac for about a year and wish I had converted earlier. However, there is one problem that is bugging me: which is the best out of *iPhoto*, *Aperture 3* and *Adobe Elements 8*?

I believe *Elements 8* has more facilities such as layers, Photo Merge and so on, but I cannot find any comparisons that would help me to decide. I do need something more than simple image editing and cataloguing, but not with a £600+ price tag.

David French

MacFormat Replies: The answer is that it depends what you want to do. *Adobe Photoshop Elements* (£76) is low-cost and has a powerful range of image-editing features, but needs a bit of training to get the most out of it. *iPhoto* (£71 as part of the *iLife '09* suite) is *Apple*'s consumer-focused photo-editing application. It's perfect for performing a few simple photo edits and organising your photos into libraries.

You can think of *Aperture 3* (£169 or £79 upgrade) as a step-up from *iPhoto*. It has more advanced tools and more workflow options. *Aperture 3* doesn't use layers, like *Photoshop* does, but it contains lots of tools designed specifically for editing photos. *Photoshop* remains the most powerful tool for compositing and manipulating images, but *Aperture 3* is designed specifically to cater to all the needs a photographer could have. We feel we should also give a nod to *Adobe's Adobe Photoshop Lightroom* here, which is a similar program to *Aperture 3*. We're currently waiting for the full version 3 to be released. In the meantime, you can get the beta of version 3 from http://labs.adobe.com. Why not give it a try? ●

>> MICROSOFT / Israeli office?

As a recent subscriber to *Mac Format*, I read with interest your recent review of the Macworld expo in the May issue, where you refer to Microsoft's booth as "nothing more than a wall of televisions showing the antics of its wacky mascots," shown in pictures 04 and 06.

Far from being 'wacky mascots', these are in fact letters from the Hebrew alphabet. The 'e' for *Entourage*, 'x' for *Excel*, 'p' for *PowerPoint* and 'w' for Word are, respectively, the representations of the script letters of Pe, Aleph, Kof and Shin. This suggests that the probable development of the software program for the Mac platform was and is in Israel, where a large Microsoft office exists and where, possibly, some of the world's most advanced software specialists and developers are based.

David Rosen

MacFormat Replies: Interesting theory, David. The *Microsoft Office* icons do indeed bear a striking resemblance to the Hebrew alphabet. As to whether this provides a clue to the developers' location, we're just not sure. Can readers help?

Office icons: inspired by the Hebrew alphabet?

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MacFormat investigates

The World Cup on your Mac

No matter who you're shouting for in the 2010 World Cup, the perfect place to watch all the action is right on your Mac. **Christopher Phin** settles down with a stubby

Get the beers in and get ready: it's almost time for the World Cup. Happily, it's easy to enjoy all the action on your Mac, iPhone or iPod touch. Here we'll show you how to create the perfect footie-watching setup in your front room. We'll suggest a few alternatives, plus explain the options you have for watching live TV on your iPhone or iPod touch. We'll also show how to export clips to play back on any iPod or iPhone device, and even how you can use them to order food and drink from the comfort of your sofa.

Even if you couldn't care less about football, you'll still learn how to get a great TV experience on your Mac. Using the Elgato EyeTV Netstream DTT, you could hide in another room watching TV over Wi-Fi while the football's on in the lounge!

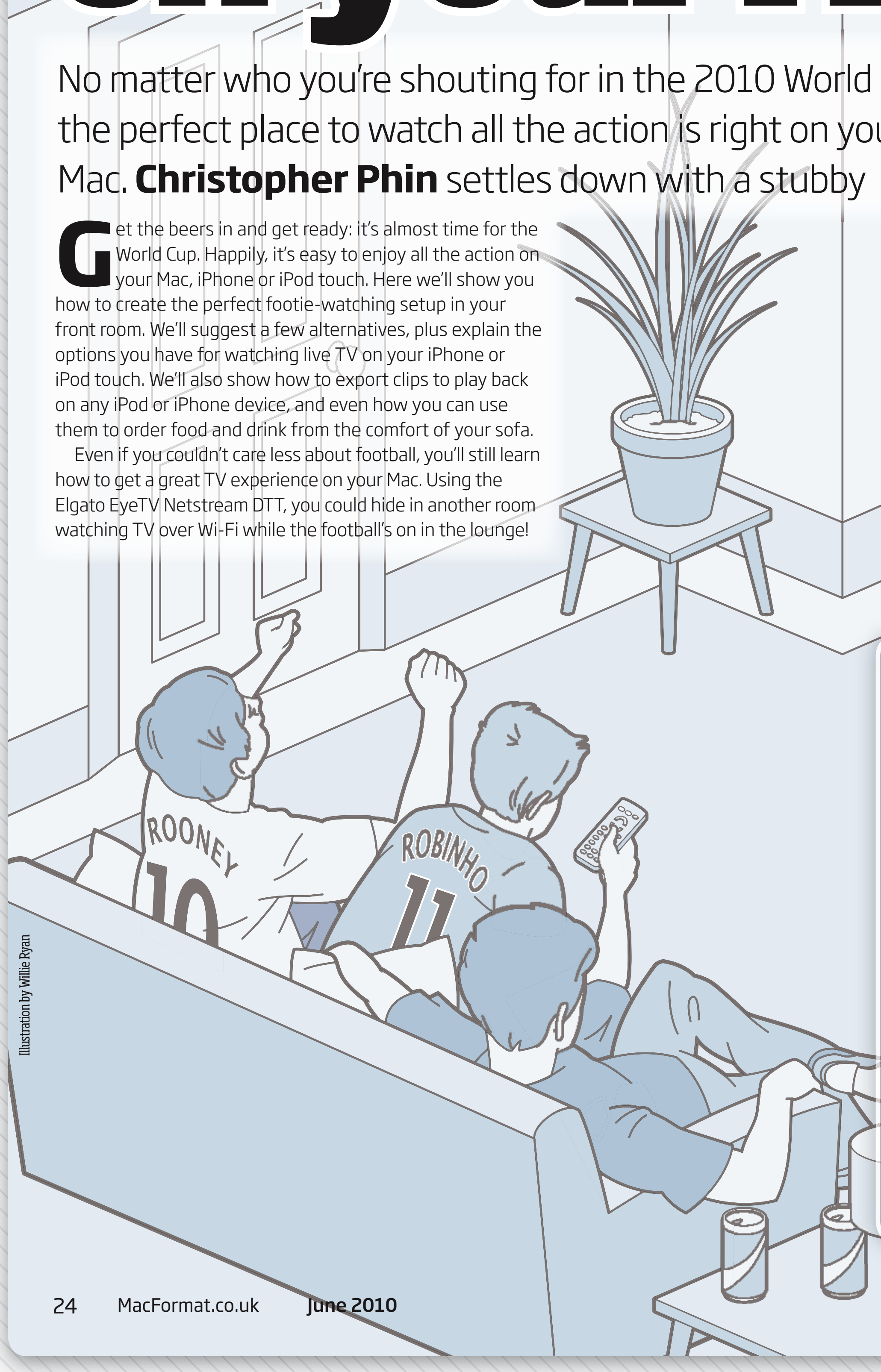


Illustration by Willie Ryan

Mac mini 2.26GHz
£510

The compact Mac mini is powerful enough even for HD playback, and, by using a cheap DVI-to-HDMI adaptor, it can be easily connected to any modern TV. You could always opt for an all-in-one iMac, though that limits your choice of screen. Remember too that a MacBook will happily power a big screen, using, say the Kanex Mini DisplayPort to HDMI with Digital Audio we reviewed in issue 217.

Why not also try these:
iMac 27-inch 3.06GHz £1,378
MacBook 2.26GHz £816

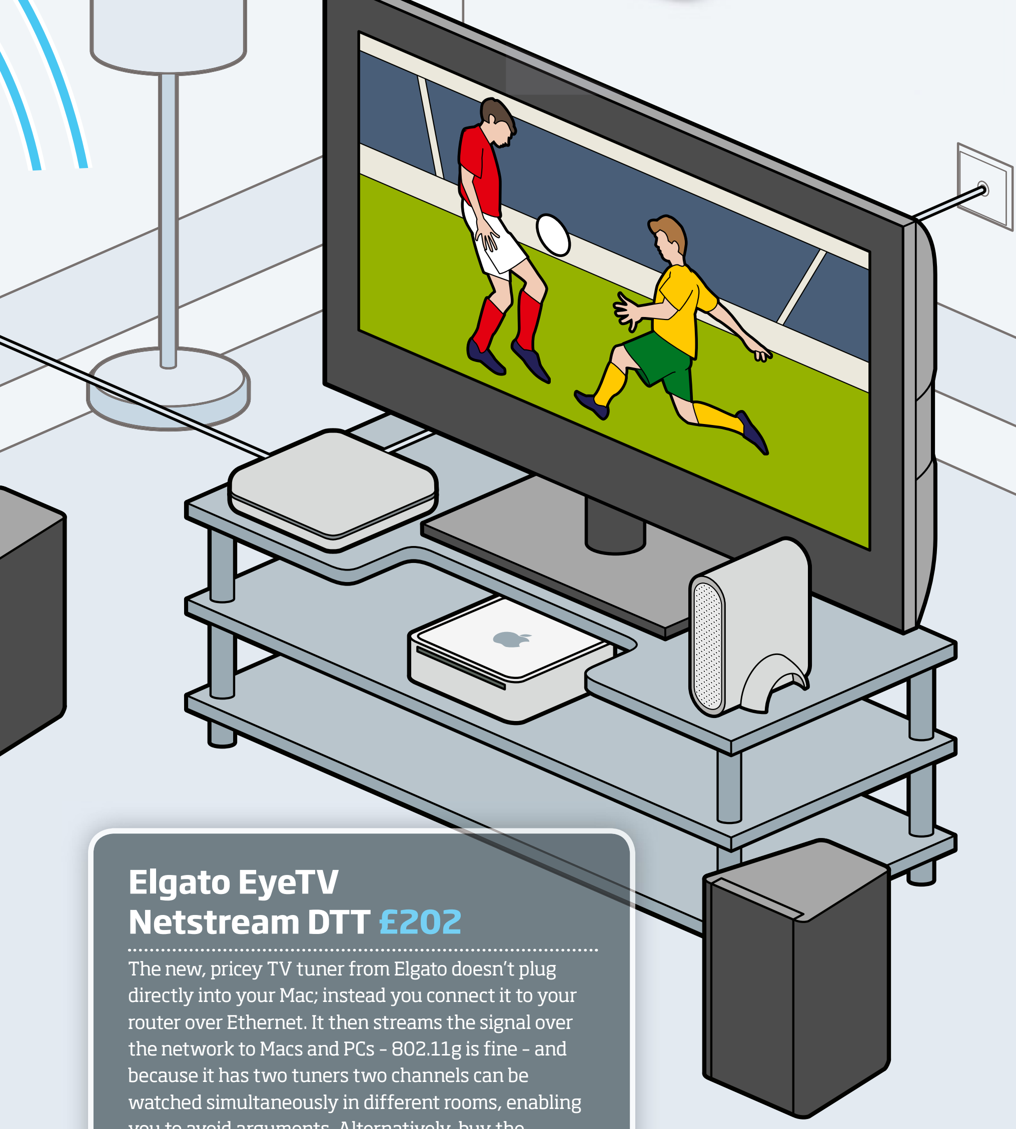
Iomega Professional 1TB £97

The Mac mini's internal hard disk will hold a fair chunk of recorded TV, but with hard disks so cheap these days, it makes sense to buy a wodge of external space. The Iomega and LaCie models here hold a full terabyte (more than enough to record England's road to the Cup, only to fall at the quarter-finals) while the WD model cleverly lets you mirror 1TB of data across two drives, guarding against hard disk faults.

Why not also try these:

LaCie Starck 1TB £80

WD My Book Studio Edition II 2TB £198



Elgato EyeTV Netstream DTT £202

The new, pricey TV tuner from Elgato doesn't plug directly into your Mac; instead you connect it to your router over Ethernet. It then streams the signal over the network to Macs and PCs – 802.11g is fine – and because it has two tuners two channels can be watched simultaneously in different rooms, enabling you to avoid arguments. Alternatively, buy the football edition of the EyeTV DDT Deluxe and Elgato will give you your money back if England wins!

Why not also try these:

Elgato EyeTV DTT deluxe football edition £78

Equinux TubeStick £54

Samsung LE40B550 £519

As a general rule of thumb these days, when it comes to TVs, buying Samsung is a sensible option. This 40-inch model won the group test of our sister magazine *Home Cinema Choice*; not only is its picture quality superb, but it boasts full HD and has a slew of input options. Alternatively, if you've got the cash to spare then plump for a digital projector such as the Optoma HD20; or why not go for the Samsung LD220HD – a widescreen LCD monitor sporting its own built-in Freeview TV tuner.

Why not also try these:

Optoma HD20 £883

Samsung LD220HD £200

Onkyo HTX-22HD £250

Sound is of course a fundamental element in any TV experience, and it would be a heinous crime indeed to overlook it. Sure, you could just route your Mac's audio through the TV, or buy a set of traditional computer speakers such as the Creative pair recommended below. But this 2.1 system is much better. Not only can it be optionally upgraded to 5.1, but it also has optical inputs, meaning that both your audio stays digital till the last moment and it does away with the need for an extra volume controller (see **http://bit.ly/dbqnxF**).

Why not also try these:

Creative Gigaworks T40 Series II £99

Yamaha YSP-30D £350

Watching the World Cup on your iPhone

Never miss a second! Get the all the live action right on your iPhone

Elgato EyeTV

Elgato's EyeTV app for the iPhone lets you watch live TV on your iPhone or iPod touch, by streaming it from a Core 2 Duo-equipped Mac on your local network. Sadly, it can't stream directly from the Netstream DTT on your network, or even - if your iPhone is connected to a Wi-Fi network anywhere in the world - across the internet. It won't currently stream over 3G, but Elgato has a web app at **https://live3g.eyetv.com** that enables your iPhone to stream your TV even over a 3G mobile connection.

Equinux LiveTV

Equinux's app does a similar thing to Elgato's. You need to have a Mac running Equinux's *The Tube* software with a supported TV tuner on your local network, then all you have to do is buy the £2.99 *LiveTV* app through the App Store, and configure it to stream your TV straight to your iPhone or iPod touch. This solution, sadly, doesn't enable you to stream TV over the internet, so if you want to be able to watch the matches surreptitiously at your desk on your iPhone, this isn't the solution for you.

TVCatchup

This one isn't an app at all, at least in the sense we usually mean it. In the UK, we have access to the terrific **www.tvcatchup.com** website that streams many terrestrial channels over the internet for free. You can access it on a Mac, sure, but it comes into its own on an iPhone or iPod touch. Just fire up *Safari*, go to the URL, sign up for a free account, then tap on a channel to watch it. Given enough bandwidth, it'll happily work over 3G, and you can tap the **+** icon at the bottom to add a shortcut to your home screen.

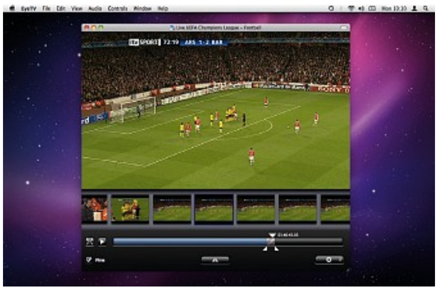
SlingPlayer

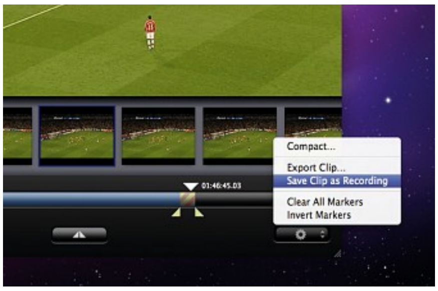
This solution perhaps requires the biggest investment, but the Slingbox system is one that has proven itself over the last few years. You'll need to buy a box that you connect to your network and TV system at home (the £114 Slingbox SOLO and £155 PRO are supported) and then the £18 app on your iPhone will be able to stream TV from home wherever you are, even over 3G. One reason to go Sling is that it can integrate with Sky or other satellite or cable services' set-top boxes.

Orange
9:41 AM

Now you can follow all the build-up, all the action and all the controversy on your iPhone. Image © Getty Images

HOW TO / Save clips to your iPhone from EyeTV




Compact...
Export Clip...
Save Clip as Recording
Clear All Markers
Invert Markers
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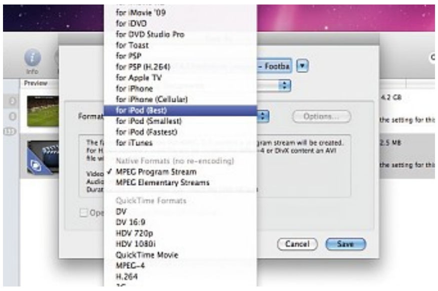

for iMovie '09
for iDVD
for DVD Studio Pro
for Toast
for PSP
for PSP (H.264)
for Apple TV
for iPhone
for iPhone (Cellular)
for iPod (Best)
for iPod (Smallest)
for iPod (Fastest)
for iTunes
Native Formats (no re-encoding)
✓ MPEG Program Stream
MPEG Elementary Streams
QuickTime Formats
DV
DV 16:9
HDV 720p
HDV 1080i
QuickTime Movie
MPEG-4
H.264
Options...
Cancel
Save

01 Mark your clip

Select a recording from your EyeTV library to crop a clip from. Choose Action > Edit. Drag the playhead to where your clip starts (click **Fine** to get more precise control in the frame strip) then click the double triangle to split the playhead. Drag the rightmost half of the playhead to the end.

02 Save your clip

Make sure the clip you just marked out is selected (coloured with alternate red and yellow stripes) then select Action > Save Clip as Recording. (If you only want to clip from a recording, you could choose **Export** then pick your preset, but we're assuming you'll want to take more than one clip.) Repeat as necessary.

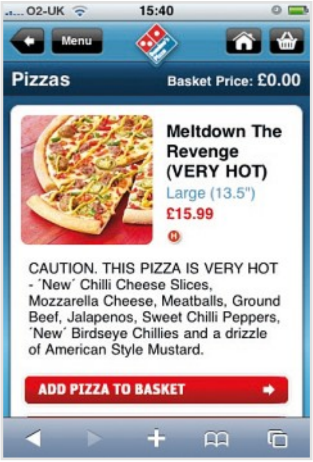
03 Export to iPod/iPhone

Now, select all the clips that you just created. To export them to iPod, click the iPod icon in the toolbar. For more options, select Action > Export and choose one of the other presets; even the PSP is supported. Add the exported files to *iTunes* then sync them to your iPod or iPhone. ●

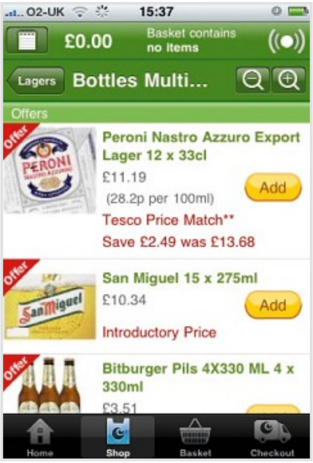
4 ways not to miss a match!

Sitting comfortably? Why get up? Make food come to you!

iStockPhoto.com


O2-UK
15:40
Menu
Pizzas
Basket Price: £0.00
Meltdown The Revenge (VERY HOT)
Large (13.5")
£15.99
ADD PIZZA TO BASKET

CAUTION. THIS PIZZA IS VERY HOT - 'New' Chilli Cheese Slices, Mozzarella Cheese, Meatballs, Ground Beef, Jalapenos, Sweet Chilli Peppers, 'New' Birdseye Chillies and a drizzle of American Style Mustard.


O2-UK
15:37
£0.00
Basket contains no items
Lagers
Bottles Multi...
Offers
Offer
Add
Home
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Basket
Checkout

Peroni Nastro Azzuro Export Lager 12 x 33cl
£11.19
(28.2p per 100ml)
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San Miguel 15 x 275ml
£10.34
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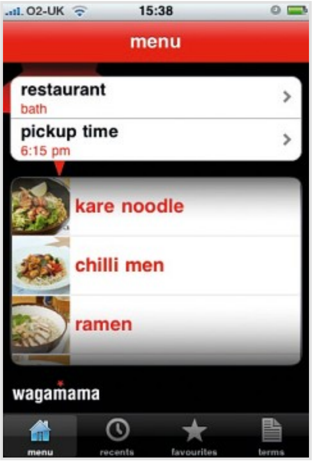
O2-UK
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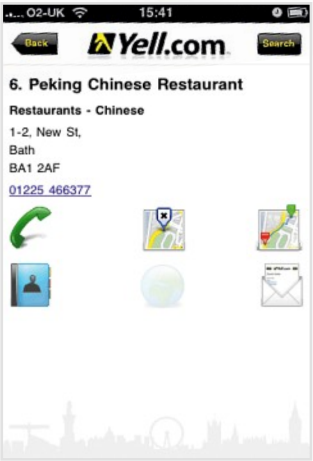
O2-UK
15:41
Back
Yell.com
Search

6. Peking Chinese Restaurant
Restaurants - Chinese
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Bath
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01225 466377

Dial a Domino's...

Yes, Domino's delivers. And yes, it has an iPhone version of **www.dominos.co.uk** that you can add to your home screen. Delicious, deep-pan pepperoni pizza (other styles and toppings available!) can be only a few taps away. Just remember to wipe your hands.

Order Ocado...

Many supermarkets' online ordering should work on your iPhone, but none offer optimised websites. Happily, Waitrose, through its Ocado brand, has an app on the App Store. Use it to order, so long as you live in an area to which Ocado delivers.

Want Wagamama?

You could order some light, tasty Japanese-style food from Wagamama. Sadly, the company doesn't currently deliver; once you've made your selection from the menu of your local Wagamama, you'll need to leave the house to pick it up.

Or just Yell.com

Of course, there's always the good old Yellow Pages. The *Yell.com* app can determine your location so that when you look for local takeaways, it will tell you which are nearest. Tap an icon in the app to call it directly, and you can save favourites to **Contacts**.

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Faster! Smarter! Better!

Illustration by MagicTorch

Anything you can do, we can do better! And now you can too. **Adam Banks** rounds up the top tricks to improve your Mac life.

Every year, the latest Macs get faster and faster. But do we? No matter how many teraflops it can flip, your computer's ability to save you time and effort depends on you finding your way around its features and functions. Even if there's nothing you don't know how to do, it's knowing the quickest and simplest way to do it that divides the true power user from the person who's still trying to get that coffee they promised themselves before they started that job that was going to take them five minutes.

Unlike certain other operating systems, of course, the Mac OS has a habit of making it pretty obvious what buttons you need to push. But its very ease of use can lead even seasoned users into competence complacency. Okay, so you've sprinted up that gently sloping learning curve and are sunning yourself on the lush plateau of computing confidence. Take a peek just ahead of you, though. What's that twinkling through the undergrowth, a few short steps out of reach? Yes – it's efficiency nirvana: the place where you can relax because everything takes a little bit less time than you expected.

The following tips don't delve into uncharted territory or unearth strange artefacts from the bowels of the operating system. They just shed new light on familiar everyday tasks, revealing secrets and shortcuts to smooth your journey. Follow our map, take note of the pitfalls, and we'll see you safely from 'to do' to 'done' in time for elevenses. »

"Mac OS makes it obvious what buttons you need to push…"

01 Customise your toolbars

Don't: Think keyboard shortcuts are the only way to speed up your work.

Do: Customise the toolbars in *Finder* and Apple apps such as *Mail* and *Safari*. Go to View > Customize Toolbar, then drag the icons for your favourite features into position. It's almost like programming your own app (without the coffee-stained Grateful Dead T-shirt).

02 Jump to Finder locations

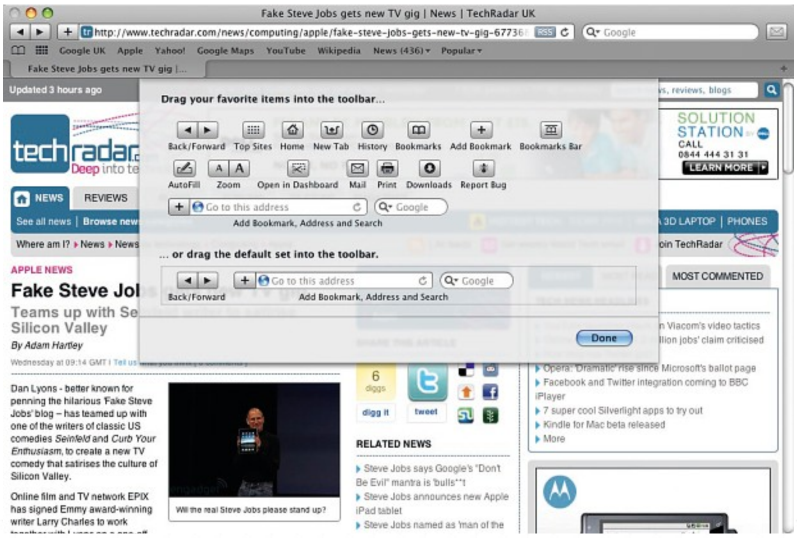
Don't: Mouse around your Mac to get to key system locations.

Do: Use keystrokes in *Finder* to go straight to them. Holding ⌘+⇧, press A for Applications, C for Computer (overview of all storage), D for the Desktop, H for your Home folder (the one with your name on it inside the Users folder), I for your iDisk (if you use MobileMe), K to browse your local network, or U for Utilities.

03 Take a Quick Look

Don't: Open files in an application when you just want to check their content.

Do: Use Mac OS X's Quick Look. Select any text, image or PDF file in *Finder* and press ⌘+Y to preview it in a pop-up window. Add the ⌥ key for a full-screen slideshow; this works with multiple selections including different file formats. Use the cursor keys to scroll up and down within documents and move between files, and press esc when you're finished.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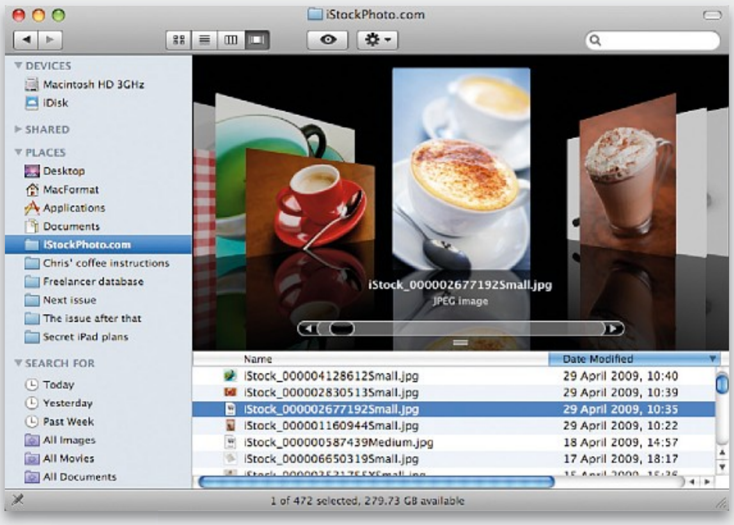
Tip 1: Add icons to the toolbars in Finder and Apple apps for your most-used options.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iStockPhoto.com
Chris' coffee instructions
Freelancer database
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Secret iPad plans
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Past Week
All Images
All Movies
All Documents
iStock_000002677192Small.jpg
JPEG image
Name
Date Modified
iStock_000004128612Small.jpg 29 April 2009, 10:40
iStock_000002830513Small.jpg 29 April 2009, 10:39
iStock_000002677192Small.jpg 29 April 2009, 10:35
iStock_000001160944Small.jpg 29 April 2009, 10:22
iStock_000000587439Medium.jpg 18 April 2009, 14:57
iStock_000006650319Small.jpg 17 April 2009, 18:17
1 of 472 selected, 279.73 GB available

Drag your favourite folders into Finder's sidebar for instant access.

04 KEEP YOUR FAVOURITES IN THE SIDEBAR

Don't: Navigate manually to your favourite folders every time.

Do: Use the sidebar at the left of every *Finder* window. If you don't see it, press ⌥+⇧+T. Drag any folder onto the area under **Places** to keep it here. You're only dragging a shortcut: the folder itself doesn't move. If you want to remove it from the sidebar, you can drag it off without affecting the content.

05 Navigate Finder

Don't: Chase files and folders round Finder with your mouse.

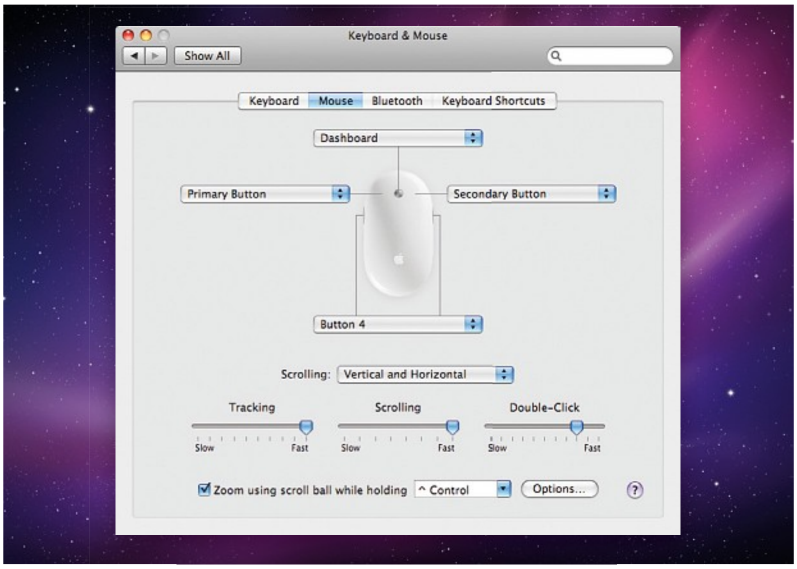
Do: Learn the key shortcuts to browse efficiently. Press ⌘-N in *Finder* for a new window, and set its view mode to icons, list, columns or Cover Flow by pressing ⌘ with 1, 2, 3 or 4. In List view, click any column heading to sort by that criterion. Pressing tab will cycle through them in alphabetical order. Move up and down the list with the cursor arrow keys; with a folder highlighted, press ► to see its contents or ◄ to close it again. In any view, press ⇧-⌘-N to create a new folder in the current location. To check where the current folder is, either ⌘-click its name in the window title bar or look at the path bar at the foot of the window, activated via View > Show Path Bar.

Stop the chase! Use shortcuts to get to files.

06 Accelerate your mouse

Don't: Dawdle around the screen.

Do: Use the **Keyboard & Mouse** pane of *System Preferences* to increase tracking and scrolling speeds. With today's big screens and high resolutions, you may need maximum tracking to get from left to right without falling off your mouse mat. Thanks to the accuracy of modern mice, you should still have fine enough control. Faster scrolling also saves finger-ache in websites, text documents and your Inbox.



Dashboard

Primary Button

Secondary Button

Button 4

Scrolling: Vertical and Horizontal

☑ Zoom using scroll ball while holding ^ Control

Rev up your rodent for quicker and more comfortable cursor control.

07 Print from Finder

Don't: Waste precious time printing off a folder of documents one by one.

Do: In *Finder*, select all the files you want to print (use ⇧ or ⌘ to select multiple items). Then go to File > Print. Each document will open in its associated application and output using its Print command with its existing or default print settings.

08 Set file associations

Don't: Put up with documents constantly opening in the wrong application when double-clicked.

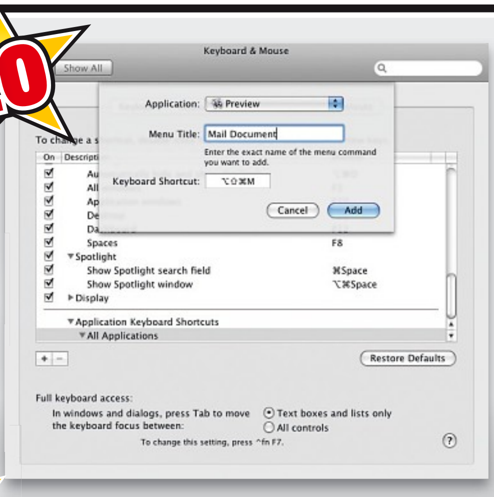
Do: Tell Mac OS X which app to use. For example, should text files open in *Word* or *TextEdit*? To choose, right-click a file and choose Open With, then pick an app from the list. If you want to make your choice apply to all files of this kind in future, select the file and press ⌘+I (Get Info). Under Open With, choose an app, then click Change All. If you can't get a file to open in a particular app, try launching the app first, then press ⌘+O and browse to the file.

09 Work with multiple items

Don't: Perform actions on multiple items individually when you can do them all at the same time.

Do: In *Finder*, you can select multiple folders by ⌘-clicking, then expand them all to reveal their contents by pressing the right cursor key (and left to close them again). Or select multiple files in the same way and press ⌘+O, or drag them all onto an application icon in the Dock, to open them all at once. Note that in icon view you can ⇧-click to select items that aren't next to each other; in List view you do this with ⌘, while ⇧ selects every file between the first and second you click. In many cases you can also open multiple files from within an app by using File > Open (or ⌘+O) and then ⇧ or ⌘-clicking within the Open dialog box.

10 MAKE YOUR OWN SHORTCUTS



Application: Preview

Menu Title: Mail Document

Enter the exact name of the menu command you want to add.

Keyboard Shortcut: ⌥⇧⌘M

☑ Spaces F8

☑ ▼Spotlight

☑ Show Spotlight search field ⌘Space

☑ Show Spotlight window ⌥⌘Space

☑ ▶Display

▼Application Keyboard Shortcuts

▼All Applications

Full keyboard access:

In windows and dialogs, press Tab to move the keyboard focus between: ● Text boxes and lists only ○ All controls

To change this setting, press ^fn F7.

Drag your favourite folders into Finder's sidebar.

Don't: Curse the lack of keystrokes for your favourite commands.

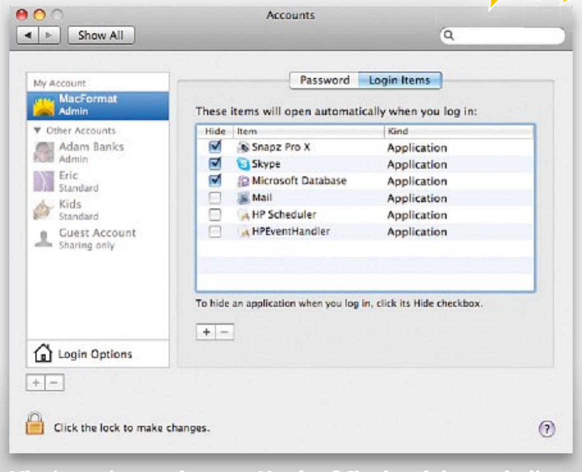
Do: Create your own. Go to System Preferences > Keyboard & Mouse > Keyboard Shortcuts. At the top of the list are various ready-made combos for Mac OS X functions, which you can edit by clicking in the **Shortcut** column or disable by unticking. Below, there's a section for applications; it's empty by default, but click the **+** button and you can add a shortcut for almost any menu option in any app. Select the app from the drop-down list, or leave it on **All Applications** for elusive commands such as those in the **Services** menu. The name of the option isn't confirmed as you type it, so after clicking in the **Key Shortcut** box and pressing your desired combo you'll need to go and check that it works.

»

11 TIDY UP YOUR LOGIN ITEMS

Don't: Wait for a random selection of applications to load every time you restart your Mac.

Do: Go to System Preferences > Accounts, make sure your account is highlighted on the left, and click the **Login Items** tab on the right. This lists the apps that will launch automatically when you start up or log in. Ticked items load without displaying anything, while unticked items will be seen during the startup process and may leave windows open. You can remove an item from the list by selecting it and clicking the minus button below. Don't get rid of anything that other software may rely on – such as *iTunes Helper*, or *Microsoft Database* if you're running *Office* – but feel free to kill products like *Skype* if you don't use them regularly. On the other hand, you might be able to save time and effort by auto-running additional apps you do use every day, such as *Mail* and *iPhoto*. Click the plus sign, press ⇧-⌘+A in the file browser to go into **Applications**, and pick the apps you want (remember you can select more than one by holding ⌘).



These items will open automatically when you log in:

Hide	Item	Kind
☑	Snapz Pro X	Application
☑	Skype	Application
☑	Microsoft Database	Application
☐	Mail	Application
☐	HP Scheduler	Application
☐	HPEventHandler	Application

To hide an application when you log in, click its Hide checkbox.

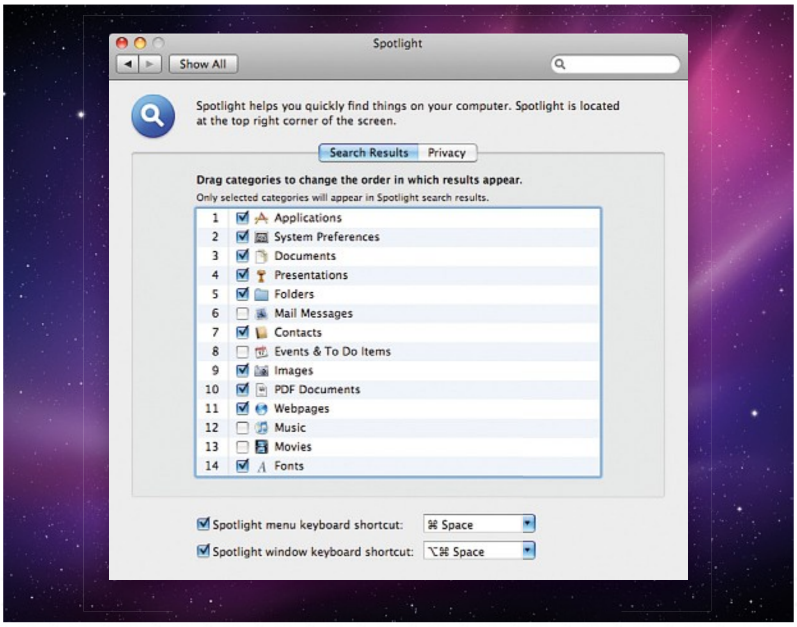
Click the lock to make changes.

What's starting up when your Mac does? Check and change the list.

12 Quick and calculating

Don't: Fire up the calculator app just to do quick sums.

Do: Get answers even faster with *Spotlight*. Press ⌘+[Spacebar], then type, for example, '59/365*100' to discover that your MobileMe subscription is costing you 16p a day. You don't even have to press = or ↩, as the answer will appear instantly below. To start a new calculation, press tab. If you find you do need the more advanced features of *Calculator*, just start typing its name and press ↩ when it appears as the Top Hit.



Spotlight helps you quickly find things on your computer. Spotlight is located at the top right corner of the screen.

Drag categories to change the order in which results appear.

Only selected categories will appear in Spotlight search results.

1	☑	Applications
2	☑	System Preferences
3	☑	Documents
4	☑	Presentations
5	☑	Folders
6	☐	Mail Messages
7	☑	Contacts
8	☐	Events & To Do Items
9	☑	Images
10	☑	PDF Documents
11	☑	Webpages
12	☐	Music
13	☐	Movies
14	☑	Fonts

☑ Spotlight menu keyboard shortcut: ⌘ Space

☑ Spotlight window keyboard shortcut: ⌥⌘ Space

Tell Spotlight where to go… it can search everything on your system, which is sometimes far too much.

13 Tell Spotlight where to go

Don't: Let Spotlight waste its time… and yours.

Do: Tell Spotlight what to show first and where not to look. In System Preferences > Spotlight, click the Search Results tab and drag the categories – Documents, Contacts, Movies and so on – to dictate the order in which items will appear. Untick any categories you don't want. For example, you may find *Mail* messages clutter your results, and prefer to search those within *Mail*. In the Privacy tab, click + and select any drives or folders that you want Spotlight not to bother searching – an external drive full of media that you manage in *iTunes*, perhaps.

14 Finders keepers

Don't: Search repeatedly for the same thing.

Do: Save your searches. Press ⌘+F in any *Finder* window to bring up the search options and enter your terms. Having found the files that meet your criteria, click Save, at the top right, to store your search as a Smart Folder, listed under Search for at the foot of the sidebar to the left of every *Finder* window. In future, just click this to re-find all files (including any new additions) that meet the same criteria. For example, search for Contents | Contains [the name of a work project] plus Last modified date | is | within last |7| days to find everything you've done on the project in the last week with one click. There are also Smart Folders in *Mail* to categorise messages without moving them out of your Inbox.

15 Drag and dance

Don't: Fiddle around arranging your windows next to each other just so you can drag items between them.

Do: Use Application Switcher or *Exposé* while dragging. Start in the app that contains the item you want to drag, or in *Finder* if it's a file. Click on the item with the left mouse button and hold down, ready to drag it. With your other hand, press ⌘+⇥ to switch to the application where you want to drop the item. If you get to the right app but the wrong document window is on top, press ⌘+` to switch windows. Or drag to a screen corner you've set up to activate *Exposé*, then continue dragging onto a window.

16 Let Spotlight do the work

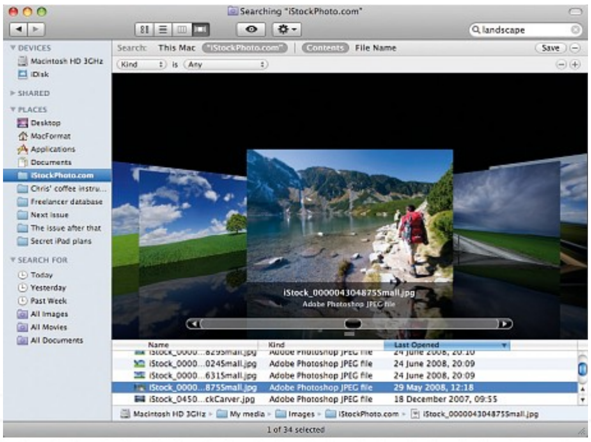
Don't: Hunt around your Mac for the app or file you want.

Do: Use Spotlight. Hit ⌘+[spacebar] to open Spotlight, then type all or part of what you're looking for, whether it's a filename, text, email or contact. Results appear below; press ↩ to open the Top Hit, or use the cursor keys to move through the list. Press ⌘+↩ to open the folder containing the item rather than launching the item itself.

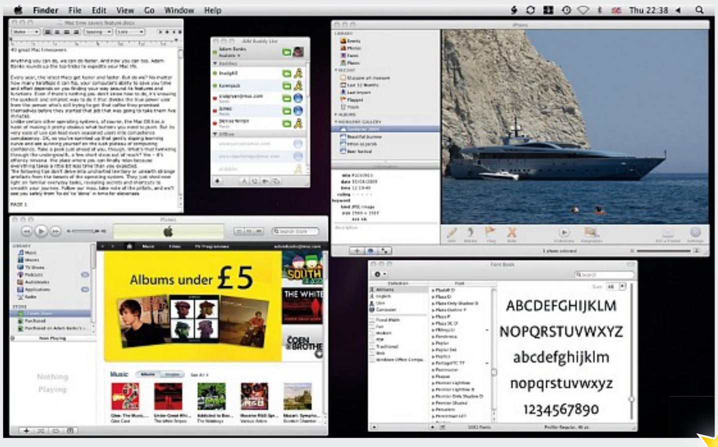
17 Search, don't scroll

Don't: Scroll through an enormous list in Finder to find what you want within a crowded folder.

Do: With the folder open, type what you're looking for into the search box at the top-right of the window (press ⌘+F to go to this). In the bar below, click on the folder name instead of This Mac to limit the search to this location.


Searching "iStockPhoto.com"
landscape
DEVICES
Macintosh HD 3GHz
iDisk
SHARED
PLACES
Desktop
MacFormat
Applications
Documents
iStockPhoto.com
Chris' coffee instru...
Freelancer database
Next issue
The issue after that
Secret iPad plans
SEARCH FOR
Today
Yesterday
Past Week
All Images
All Movies
All Documents
Search: This Mac "iStockPhoto.com" Contents File Name
Save
Kind is Any
iStock_000004304875Small.jpg
Adobe Photoshop JPEG file
Name
Kind
Last Opened
iStock_0000...0245mall.jpg Adobe Photoshop JPEG file 24 June 2008, 20:09
iStock_0000...6315mall.jpg Adobe Photoshop JPEG file 24 June 2008, 20:09
iStock_0000...875Small.jpg Adobe Photoshop JPEG file 29 May 2008, 12:18
iStock_0450...ckCarver.jpg Adobe Photoshop JPEG file 18 December 2007, 09:55
Macintosh HD 3GHz ▸ My media ▸ Images ▸ iStockPhoto.com ▸ iStock_000004304875Small.jpg
1 of 34 selected

Why scroll through hundreds of files when you can use the search box?


Finder File Edit View Go Window Help
Thu 22:38
Albums under £5
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz
1234567890

When you know how to use it, Exposé is actually a very useful tool.

18 REVEAL WINDOWS WITH EXPOSE

Don't: Lose track of windows among all the open applications.

Do: Use *Exposé* to find windows quickly. This Mac OS X feature has three functions: to show all the open windows side by side, to show only the windows belonging to the application that's currently in front, and to clear all the windows out of the way while you look at the Desktop. You can set how *Exposé* is activated in the *Exposé* and *Spaces* pane of *System Preferences*. Click the *Exposé* tab and you'll see which corners of the screen do what when the mouse is moved there; use the drop-down menus to change this. Below, you can also alter the key shortcuts. Note that modern Mac keyboards use the function keys for specific tasks, such as adjusting volume, so F10, F11 and F12, for example, will only work if you hold fn too (or tick the option in the **Keyboard** tab of the **Keyboard & Mouse** pane). The best choice is F3, which is labelled for the job: press it to see all windows, or with ctrl for the current app's windows, or with ⌘ to reveal the Desktop.

19 Switch between apps

Don't: Go through the Dock or Spotlight to switch to an app that's already running.

Do: Hold the ⌘ key and press ⇥ to bring up the Application Switcher, which shows the icons of all the currently running apps in a translucent bar across the middle of the screen. (Windows users will recognise this as the equivalent of ⌥+⇥.) Keep holding ⌘ while pressing ⇥ to move between these icons. Stop on the one you want and release the ⌘ key. Or to hide an app that's getting in the way, press H (still holding ⌘) while its icon is highlighted here. Pressing ⌘+⇥ is also a quick way to check which apps are running.

»

20 Switch between windows

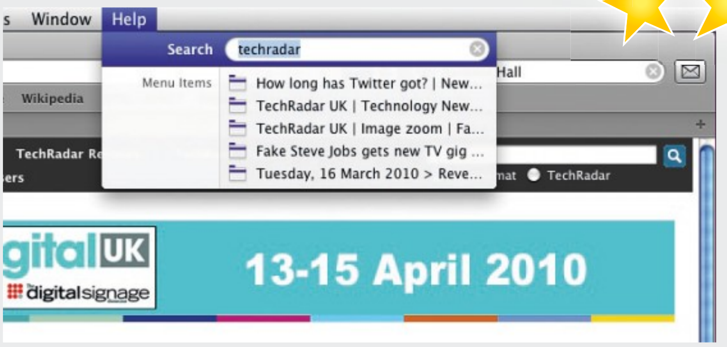
Don't: Drag windows around looking for the one you want underneath.

Do: Use window switching. Use *Exposé* (see previous tip), or press ⌘+` (the same key bearing the tilde [~] symbol) to cycle through the windows open in the current app; add ⇧ to cycle back in reverse order.

21 Find within web pages

Don't: Fail to find content you've already found.

Do: Go straight to it with *Safari's* Find function. How annoying is it when you search the web for something, then click a page in the results and can't find the thing you were searching for in the page? With a few extra keystrokes, this need never happen. After typing a word or phrase into the Google box at the top-right of the *Safari* window (or into any online search engine), hit ⌘+A followed by ⌘+C before pressing ↩. Once you've clicked through to a result, press ⌘+F followed by ⌘+V to highlight all instances of the phrase on the page. Step through them by pressing ↩.


Window
Help
Search
techradar
Menu Items
Hall
Wikipedia
TechRadar Re
ers
mat
TechRadar
gital UK
digitalsignage
13-15 April 2010

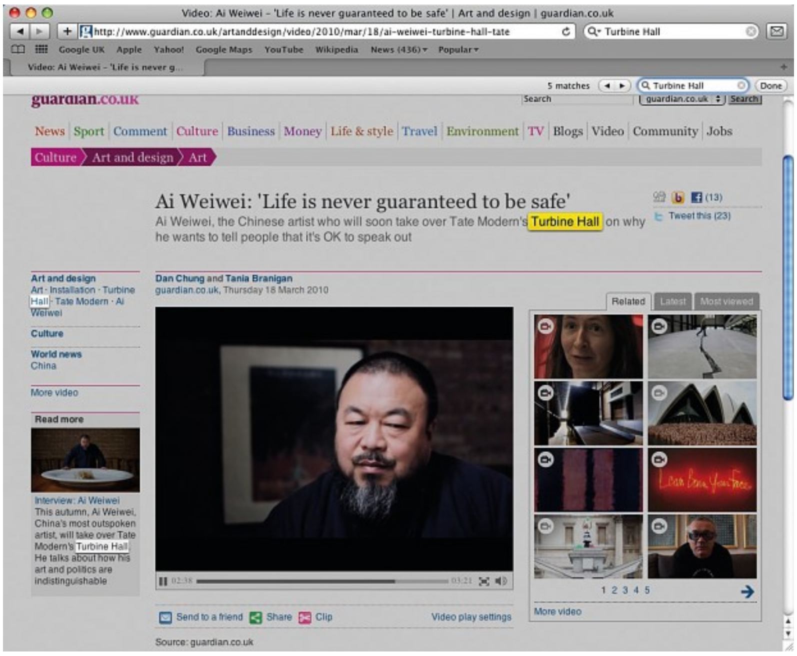
How long has Twitter got? | New…
TechRadar UK | Technology New…
TechRadar UK | Image zoom | Fa…
Fake Steve Jobs gets new TV gig …
Tuesday, 16 March 2010 > Reve…

You can search through your history and bookmarks using the Help box.

22 SEARCH SAFARI

Don't: Scroll through your history and bookmarks to track down previously viewed web pages.

Do: Search *Safari* by pressing ⇧+⌘+/ (think of it as ⌘+[?]) to go to the **Help** box and then typing what you want. This will search all the page titles in your history and bookmarks. If you want to search the content of pages, use **Spotlight**; to search only within *Safari* rather than your whole system, go to **Home/Library/Caches/Metadata/Safari** (add this location to your *Finder* sidebar for quick access) and search within this.


Turbine Hall
Google UK
Apple
Yahoo!
Google Maps
YouTube
Wikipedia
News (436)
Popular
5 matches
Turbine Hall
Done
guardian.co.uk
Search
guardian.co.uk
Search
News
Sport
Comment
Culture
Business
Money
Life & style
Travel
Environment
TV
Blogs
Video
Community
Jobs
Culture
Art and design
Art
(13)
Tweet this (23)
Art and design
Art · Installation · Turbine Hall · Tate Modern · Ai Weiwei
Culture
World news
China
More video
Read more
Related
Latest
Most viewed
02:38
03:21
1 2 3 4 5
More video
Send to a friend
Share
Clip
Video play settings

Video: Ai Weiwei – 'Life is never guaranteed to be safe' | Art and design | guardian.co.uk

http://www.guardian.co.uk/artanddesign/video/2010/mar/18/ai-weiwei-turbine-hall-tate

Video: Ai Weiwei – 'Life is never g…

Ai Weiwei: 'Life is never guaranteed to be safe'

Ai Weiwei, the Chinese artist who will soon take over Tate Modern's Turbine Hall on why he wants to tell people that it's OK to speak out

Dan Chung and Tania Branigan
guardian.co.uk, Thursday 18 March 2010

Interview: Ai Weiwei
This autumn, Ai Weiwei, China's most outspoken artist, will take over Tate Modern's Turbine Hall. He talks about how his art and politics are indistinguishable

Source: guardian.co.uk

Safari's Find function carries on where search engines leave off.

23 Use the address field

Don't: Search the net for a site you already know the name of.

Do: Go straight to it. Apparently we're all so accustomed to using the search box that we type into it even when we already know what site we want to go to. It's quicker to type the name of a site, such as 'youtube', straight into the address field, without bothering to add 'www' or '.com'. Nine times out of ten it'll work.

24 Copy to Google

Don't: Go everywhere to find out more about something you read on the web.

Do: Select text within a website in *Safari*, right-click and choose Search with Google to do exactly that. Also, when you right-click an item such as an *Address Book* contact, you'll get the option to search for its name in Spotlight.

25 Pass it on

Don't: Bother messing around with copy and paste to tell someone else about the web page you're looking at.

Do: Press ⇧+⌘+I in *Safari* to create a new *Mail* message with the URL of the current page already in the body. (We're still waiting for an equivalent for Twitter.)

26 Tame your tabs

Don't: Get your Safari windows in a twist.

Do: Master tabbed browsing. ⌘-click a link to open it in a new tab. Add ⌥ if you prefer a new window (you can reverse these combinations in Preferences > Tabs). Add ⇧ to switch to the new tab (or window) at the same time. Press ⌘+T to start a new tab; its default content is set in Preferences > General. If you have several windows open, consolidate them into tabs within a single window using Window > Merge All Windows.

All your Apple needs
Mac FORMAT
DO MORE IN SNOW LEOPARD
30 GREAT OS X HINTS AND TIPS
84 PAGES OF ADVICE!
Photoshop workshop
Make books using iPhoto
Enhance iMovie clips
THE LATEST KIT
iWork

Apple's Preview application has lots of tricks up its sleeve.

27 Prepare PDFs in Preview

Don't: Resort to Adobe Acrobat Professional to extract or rearrange PDFs.

Do: Use *Preview's* sidebar. When you open a PDF, this lists thumbnails of all the pages (you can show or hide it using ⇧+⌘+D). Click a thumbnail – or use ⇧ or ⌘ to select several – and press ⌘+C, then ⌘+N to make a new PDF containing just this. You can also drag pages from one PDF's sidebar to another.

28 Befriend your bookmarks

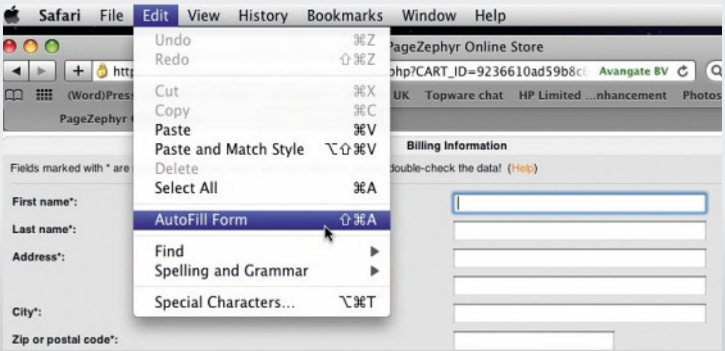
Don't: Let cumbersome controls scupper your bookmarks.

Do: Use simple shortcuts. *Safari's* handling of bookmarks can be clumsy, but they're too useful to ignore. To create a quick bookmark, press ⇧+⌘+D (not ⌘+D) to add the current URL to the Bookmarks menu without having to choose where to put it. You can organise them later in the Cover Flow view. Press ⌥+⌘+B to switch to this, and the same to go back to the page you were browsing; or, ⌥+⌘-click the Bookmarks icon at the left of the Bookmarks bar to open this view in a new window. For easier access, go to Safari > Preferences > General and set New tabs open with to Bookmarks; then you can always view your bookmarks by pressing ⌘+T.

29 FLY THROUGH FORMS

Don't: Plod through the same personal details in every web form.

Do: Take advantage of *Safari's* auto-complete abilities. As you type into a field that matches one you've filled in before, such as First name or Email, *Safari* should guess what you're going to type; just press ⇥ to accept it. To fill a whole form instantly, press ⇧+⌘+A. You should only need to add a few bits and bobs to finish the job.

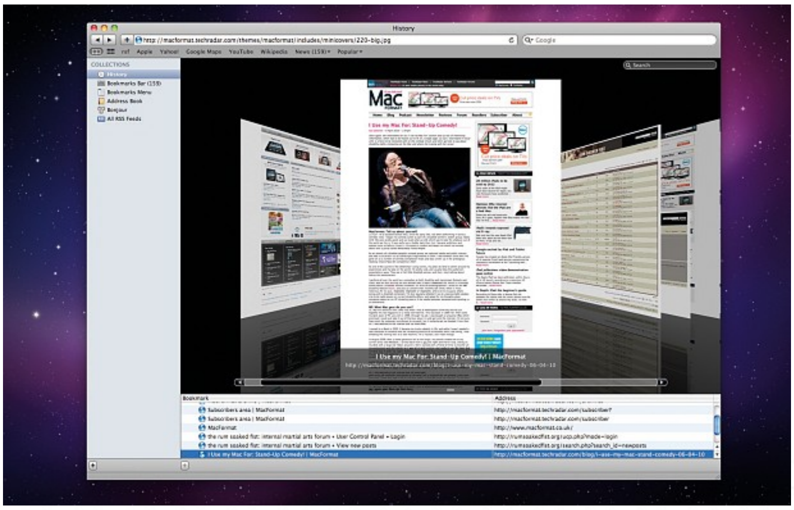

Safari
File
Edit
View
History
Bookmarks
Window
Help
Undo ⌘Z
Redo ⇧⌘Z
Cut ⌘X
Copy ⌘C
Paste ⌘V
Paste and Match Style ⌥⇧⌘V
Delete
Select All ⌘A
AutoFill Form ⇧⌘A
Find
Spelling and Grammar
Special Characters… ⌥⌘T
PageZephyr Online Store
Billing Information
Fields marked with * are
double-check the data! (Help)
First name*:
Last name*:
Address*:
City*:
Zip or postal code*:

With AutoFill Safari remembers who you are and where you live, so you don't have to.

30 Find your way back

Don't: Use the Back button to find your way back through search results.

Do: Use tabs or a clever new Snow Leopard feature. When clicking a link in a page of results, hold ⌘ to open it in a new tab; then you can click back on the first tab (or use ⇧+⌘+`) to go back to the results page. But Snow Leopard has a better trick: when you search with the Google box at the top right of *Safari's* window, click through to one of the pages found – the cross button at the right of the box turns into an orange arrow, which you can click to go back to the results page.



Cover Flow view is a nicer way to search you history in Safari.

»

31 Stay vertical

Don't: Struggle to copy or reformat a column (rather than a continuous line) of text.

Do: Hold the ⌥ key while you drag to select. This works in both *TextEdit* and *Word* to select everything within a vertical strip of your document, whether separated by tabs or spaces.

32 Snip and save

Don't: Copy and paste to save a bit of text for later.

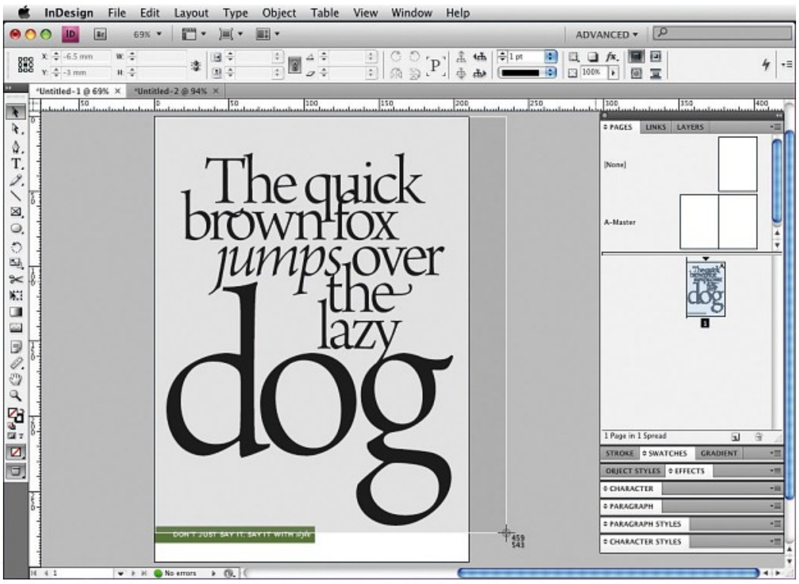
Do: Use Mac OS X's shortcuts. In *TextEdit* (and other Cocoa apps, but not *Word*), select text and use ⇧+⌘+Y to turn it into a note in the *Stickies* app (not to be confused with the *Stickies* widget). Or go to TextEdit > Services > TextEdit > New Window Containing Selection.

33 Grab and go

Don't: Spend time exporting graphics, websites or other work in formats suitable for showing to colleagues or clients.

Do: Use screen grabs. With whatever you're creating visible onscreen (turn off any grids, guides and other clutter in your software), press ctrl+⌘+⇧+4 to show a crosshair, then drag this around your work to copy it to the Clipboard. Switch to *Mail*, create a new message to your intended recipient, click in the body of the message and paste the grab (ctrl+V).

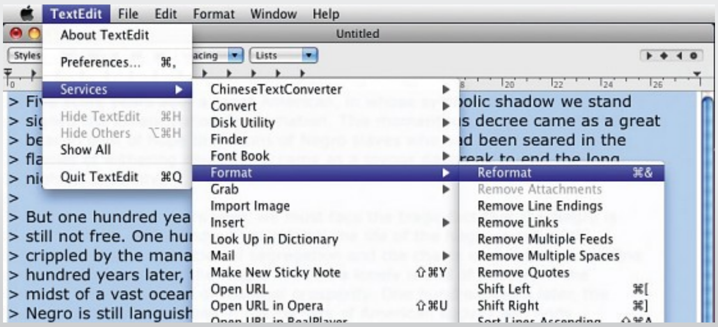
Screengrabs are the quick way to show someone else what you're looking at.


InDesign
File
Edit
Layout
Type
Object
Table
View
Window
Help
ADVANCED
*Untitled-1 @ 69%
*Untitled-2 @ 94%
The quick brown fox jumps over the lazy dog
DON'T JUST SAY IT, SAY IT WITH style
PAGES
LINKS
LAYERS
[None]
A-Master
1 Page in 1 Spread
STROKE
SWATCHES
GRADIENT
OBJECT STYLES
EFFECTS
CHARACTER
PARAGRAPH
PARAGRAPH STYLES
CHARACTER STYLES
No errors

34 TAKE OUT THE GARBAGE

Don't: Strip unwanted characters manually out of text from emails, websites or non-native file formats.

Do: Take advantage of Mac OS X's built-in reformatting tools. In *TextEdit* – or other Cocoa text editors, but not *Word* – select your text and go to TextEdit > Services > Format > Reformat (or press ⌘+⇧+7) to strip out characters. You'll find more options in this submenu. However, do note that it's not smart enough to spot where multiple line breaks should be left as a paragraph break, but it's quicker for you to put the breaks back in than take the line ends out.


TextEdit
File
Edit
Format
Window
Help
Untitled
About TextEdit
Preferences… ⌘,
Services
Hide TextEdit ⌘H
Hide Others ⌥⌘H
Show All
Quit TextEdit ⌘Q
ChineseTextConverter
Convert
Disk Utility
Finder
Font Book
Format
Grab
Import Image
Insert
Look Up in Dictionary
Mail
Make New Sticky Note ⇧⌘Y
Open URL
Open URL in Opera ⇧⌘U
Reformat ⌘&
Remove Attachments
Remove Line Endings
Remove Links
Remove Multiple Feeds
Remove Multiple Spaces
Remove Quotes
Shift Left ⌘[
Shift Right ⌘]
> But one hundred yea
> still not free. One hu
> crippled by the mana
> hundred years later,
> midst of a vast ocean
> Negro is still languish
olic shadow we stand
is decree came as a great
ad been seared in the

Mac OS X's built-in text-formatting tools can help clean up pasted copy.

35 Look it up

Don't: Go to Google or a dictionary site to look up words and their meanings.

Do: Use Mac OS X's built-in dictionary. On the application menu, click Services to reveal tools that work in most Cocoa apps including *iLife* and *iWork*. Select some text and pick Look Up In *Dictionary*. This opens a dictionary entry in a window with a search box, as well as a Thesaurus button. Or press ctrl+⌘+D for a neater dictionary. (Remember *TextEdit's* spellchecker is also available in Edit > Spelling and Grammar.)

36 Don't count old messages

Don't: Waste time checking for unread emails.

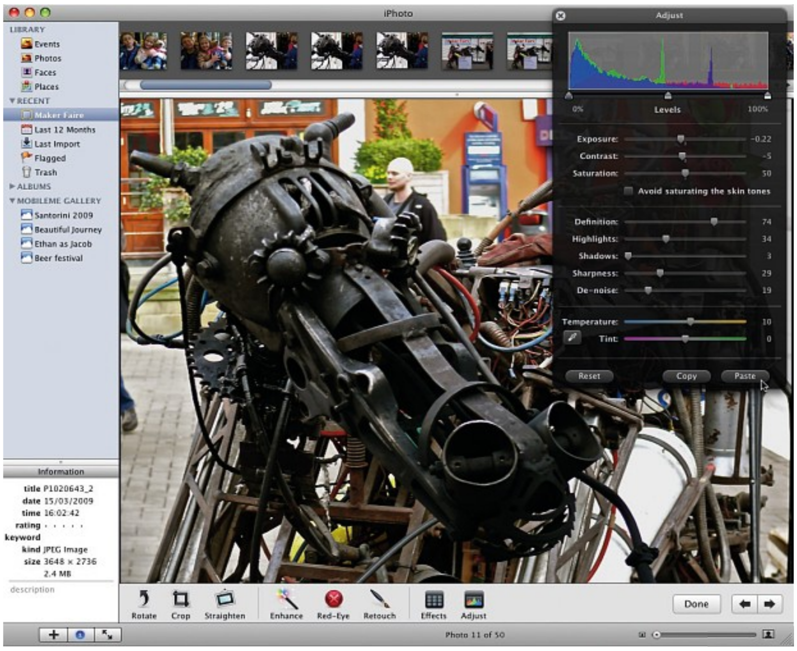
Do: Mark old messages as read. The *Mail* icon in the Dock shows how many unread items you have, which is absolutely fine if you read everything as it arrives, but otherwise will constantly reflect several hundred messages you've glanced at and ignored. One solution is to start each day by reading any relevant mail, then press ⌥+⇧+▼ to select all messages below and ⇧+⌘+U to mark them as read. Then when the icon shows mail you'll know it's new.

37 Copy colour corrections

Don't: Waste time making the same adjustment to many photos.

Do: Copy and paste adjustments. Whatever's wrong with one photo, such as dodgy exposure or an unwanted colour cast, is likely to be wrong with others taken at the same time. When using the Adjust palette in *iPhoto's* Edit mode to correct the first of your snaps, notice the Copy button at the bottom right. After setting the sliders to suit, click Copy. Now move onto the next picture and, with the Adjust palette still open, click Paste. The same settings are applied. Tweak if necessary: the original adjustments will still be applied the next time you click Paste.

When you've fixed one picture, let iPhoto repeat the process on the next.


iPhoto
LIBRARY
Events
Photos
Faces
Places
RECENT
Maker Faire
Last 12 Months
Last Import
Flagged
Trash
ALBUMS
MOBILEME GALLERY
Santorini 2009
Beautiful Journey
Ethan as Jacob
Beer festival
Adjust
0%
Levels
100%
Rotate
Crop
Straighten
Enhance
Red-Eye
Retouch
Effects
Adjust
Done
Reset
Copy
Paste
Photo 11 of 50
description

Exposure: -0.22
Contrast: -5
Saturation: 50
☐ Avoid saturating the skin tones
Definition: 74
Highlights: 34
Shadows: 3
Sharpness: 29
De-noise: 19
Temperature: 10
Tint: 0

Information
title P1020643_2
date 15/03/2009
time 16:02:42
rating · · · · ·
keyword
kind JPEG Image
size 3648 × 2736
2.4 MB

38 Date your snaps

Don't: Stare at screens full of photos with meaningless filenames.

Do: Rename them all with a couple of clicks. By default, the image titles shown in *iPhoto* (press ⇧+⌘+T if you're not seeing any) are the filenames created by your camera, typically something like 'IMG_0123'. This conveys no information; it would be much handier to name them with the date taken, avoiding the need to look this up elsewhere. Select any number of pictures, right-click and choose Batch Change (or press ⇧+⌘+B), then choose Set | Title | to | Date/Time. You even get to choose the date format – although, because of the geeks that we are, ideally we'd have liked an alphabetically sortable Year/Month/Day option…

39 Squash and send

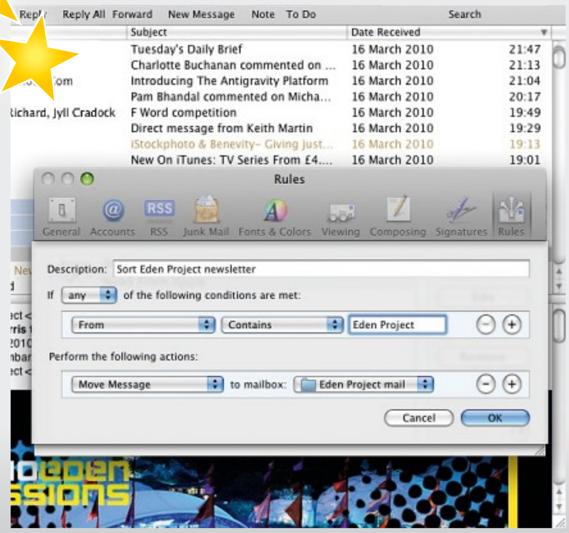
Don't: Manually resize images before emailing them.

Do: Use *Mail's* built-in resize options. When you attach an image to a message, an Image Size pop-up menu appears at the bottom right of the window. Choose Actual Size, Large, Medium or Small. The latter options reduce pics to around 1280x800, 640x400 or 320x200 pixels respectively (your mileage may vary depending on your camera's aspect ratio). The only caveat is that *Mail* isn't the most efficient when it comes to minimising file size. For even smaller uploads, select images in *iPhoto* and use Share > Email to set the desired reduction, then click Compose Message to attach them to a new email. ●

40 FILE YOUR MAIL

Don't: Clog your Inbox with mailing list fodder.

Do: Use *Mail* **Rules** to sort messages. In *Mail*, first click any email from a regular sender. What you need is the sender's name, as displayed in the **From** column. *Mail* won't let you select this directly, so you need a cheat: press ⇧+⌘+F to forward the message, select and copy (⌘+C) the name after **From:** in the body of the new email (without the address in angle brackets), then press ⌘+W to close without saving. Now go to Mailbox > New Mailbox and press ⌘+V to name the new mailbox. Click **OK**, then go to Mail > Preferences > Rules and click **Add Rule**, **Set From | Contains**, then click in the text box to the right and press ⌘+V to enter the sender's name. Below, set **Move Message | to mailbox:** and use the menu to select your new mailbox. Click **OK**, and in the future all messages from this source will stack up in this folder instead of in your Inbox.

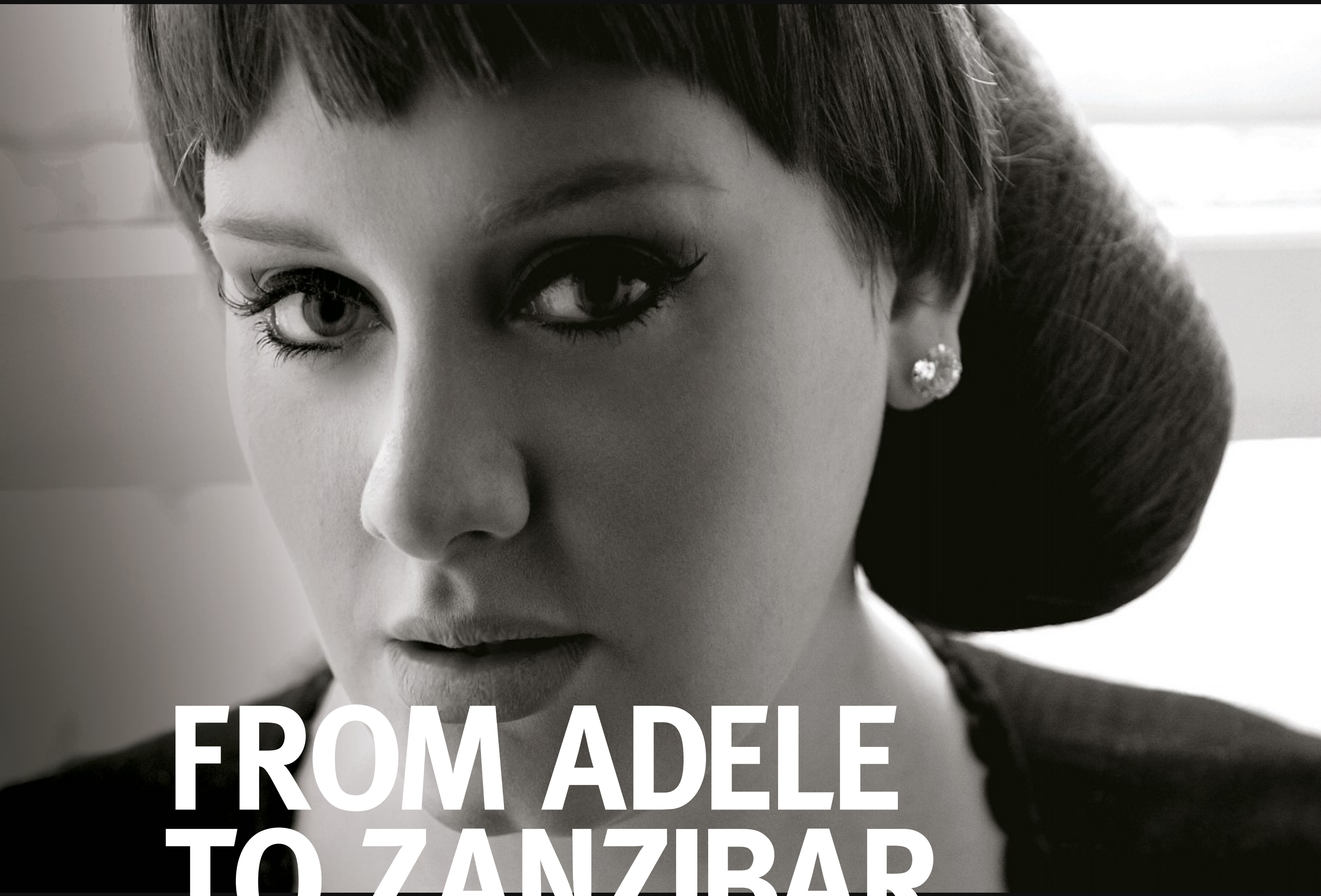

Reply
Reply All
Forward
New Message
Note
To Do
Search
Rules
General
Accounts
RSS
Junk Mail
Fonts & Colors
Viewing
Composing
Signatures
Rules
Cancel
OK

	Subject	Date Received	
	Tuesday's Daily Brief	16 March 2010	21:47
	Charlotte Buchanan commented on …	16 March 2010	21:13
	Introducing The Antigravity Platform	16 March 2010	21:04
	Pam Bhandal commented on Micha…	16 March 2010	20:17
Richard, Jyll Cradock	F Word competition	16 March 2010	19:49
	Direct message from Keith Martin	16 March 2010	19:29
	iStockphoto & Benevity- Giving Just…	16 March 2010	19:13
	New On iTunes: TV Series From £4.…	16 March 2010	19:01

Description: Sort Eden Project newsletter
If any of the following conditions are met:
From Contains Eden Project
Perform the following actions:
Move Message to mailbox: Eden Project mail

Use Mail Rules to file newsletters and updates.

emusic



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AND BACK AGAIN.

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mp3 100% COMPATIBLE

"Mastering colour control is an essential iPhoto skill!"

WE SHOW YOU THE PROS' COLOUR TIPS P44

Adjust
Levels
0%
100%
Exposure:
0.18
Contrast:
0
Saturation:
62
☑ Avoid saturating the skin tones
Definition:
0
Highlights:
0
Shadows:
31
Sharpness:
0
De-noise:
0
Temperature:
-80
Tint:
-20
Reset
Copy
Paste
Pick a neutral grey or white point in the photo to remove the color cast
AVENTURE
CN 2212
CN238289

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How to...

PHOTOS ● MOVIES ● MUSIC ● OFFICE ● SYSTEM

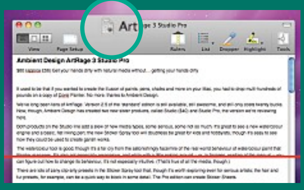
Christopher Phin
Deputy Editor

Many Mac users, when faced with the *Terminal* – if they open it at all – feel a mixture of fear and bewilderment. I feel your pain. But fear not; while this window to the Mac's Unix underpinnings can be scary (and scary-powerful) it can also be used by everyone to tweak a Mac's appearance and behaviour. All it takes is just a few simple, non-threatening lines of code.

Our reviews editor, Ian, has gathered together our 25 favourite little tips and tweaks that anyone can punch into *Terminal*, and they're all listed and explained in a feature that starts on page 62. (My favourite – and it's the first thing I do on any new Mac – is number 17.)

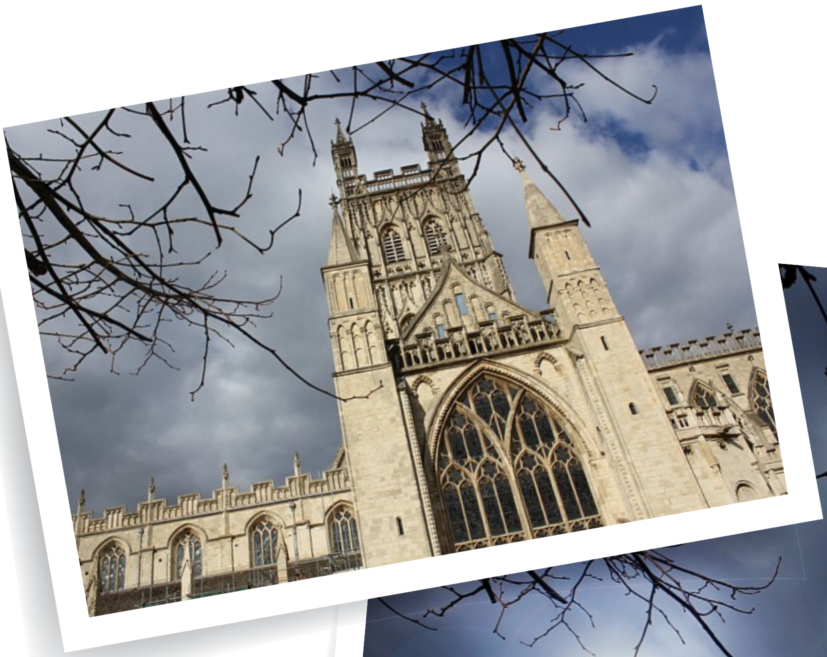
Don't worry, though; we haven't gone too geeky on you. There's also a great mix of creative tutorials as well to help you get the most from *iLife* and *Photoshop*.

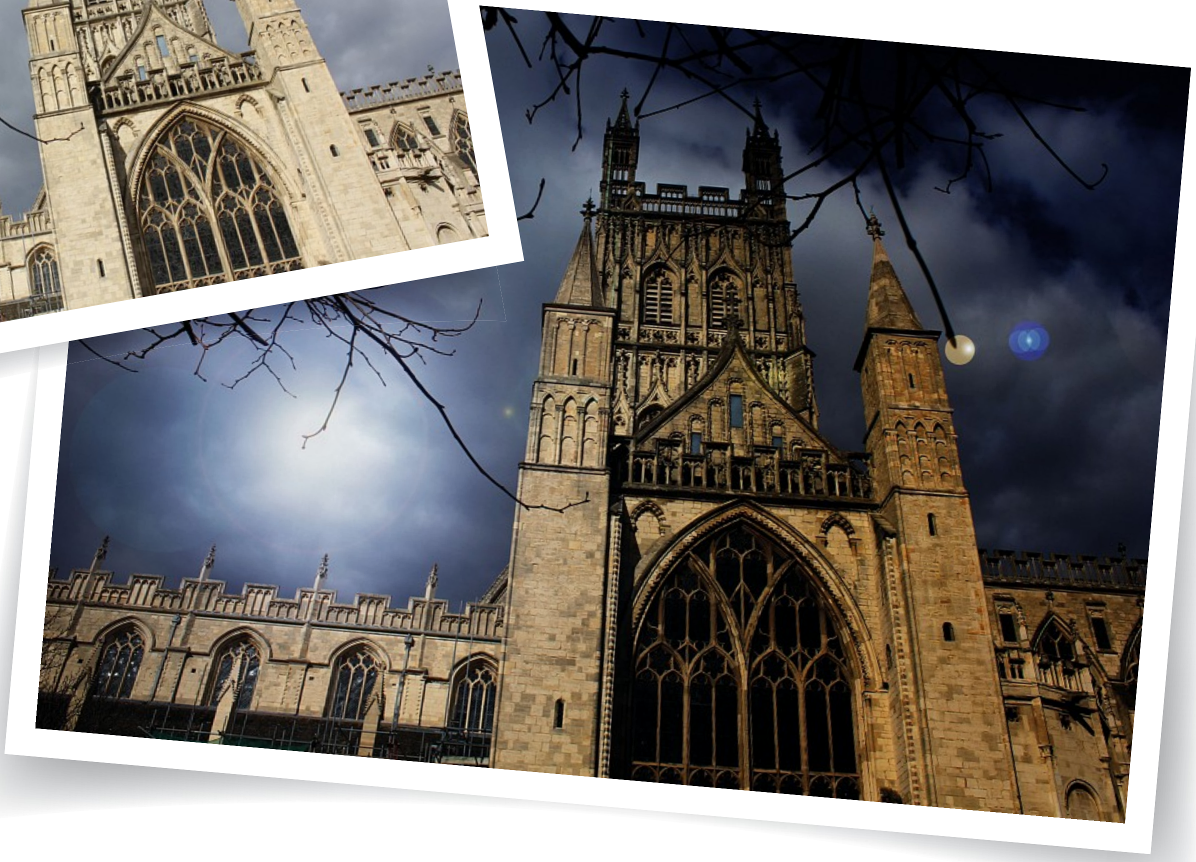
And to help you get more done, we've also racked our brains to come up with a list of essential techniques you can use to squeeze even more life from the battery inside your notebook or iPhone. (Even better, improving your battery use can actually extend its lifespan as well!)


Art
ge 3 Studio Pro
View
Page Setup
Rulers
List
Dropper
Highlight
Tools
Ambient Design ArtRage 3 Studio Pro

DID YOU KNOW?

The little icon beside the name of a document in its title bar is called the proxy icon, and you can drag it rather than having to muck about in *Finder*. For tips on using it, see **http://bit.ly/proxyicon**.





Above: Bit dreary, this shot, isn't it? Nothing much at all going on here...

Right: But behold! Celestial light now gathers above our majestic scene!

Apply lens flare in Photoshop

The Lens Flare filter can produce some striking effects with the help of layers

KEY INFO

DIFFICULTY: Intermediate

TIME NEEDED: 30 minutes

WHAT YOU'LL NEED: Photoshop or Photoshop Elements

The trouble with filters is that they need to be applied directly to image layers, which limits the control you have over their appearance later (unless you're using the Smart Filters in *Photoshop CS3* or later, but that's another story).

This applies to the Lens Flare filter, which can give a striking and authentic look to against-the-light shots, but which offers a pretty limited repertoire of effects. You get quite a lot of choices when creating the effect, but you don't really know what it's going to look like and whether it's in exactly the right place until you apply it. It also produces a net lightening effect, which is fine in itself, but not that useful if you want the image to have a dramatic look.

Our walkthrough shows a way round this that enables you to separate the effect from the image on a new layer. This gives you much more scope for repositioning it and adjusting its strength, while using it to create a much more vivid and dynamic image.

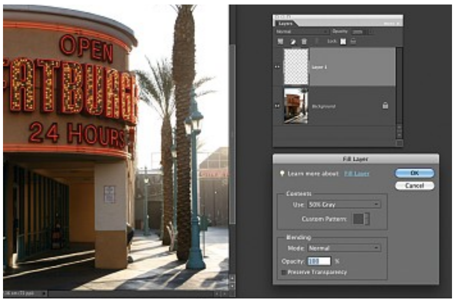
First, though, here's a quick guide to the Lens Flare filter itself. First, position the centre of the effect by clicking in the preview window. Second, choose the lens type using the radio buttons below; each type has a different 'look', so choose the one you like. Third, adjust the effect's brightness using the slider.

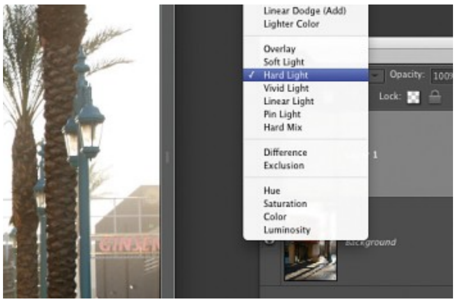
> *"The filter creates the secondary reflections typically produced by camera lenses when shooting into light"*

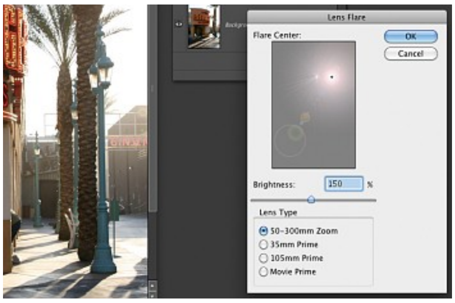
The filter doesn't just create a flare effect around the point source you've chosen. It creates the kind of secondary reflections produced by camera lenses when shooting into the light. It's important to pick a realistic source for the flare effect, too. If the sun is already in the frame, that's where you should position the effect. If there are strong shadows, try to pick a position that ties in with their direction. The closer you can get to realistic lighting, the more convincing the effect will appear.

Rod Lawton

>> HOW TO / Apply the Lens Flare filter


OPEN
FATBURGER
24 HOURS
Fill Layer
OK
Cancel
Use: 50% Gray
Mode: Normal
Opacity: 100 %


Linear Dodge (Add)
Lighter Color
Overlay
Soft Light
✓ Hard Light
Vivid Light
Linear Light
Pin Light
Hard Mix
Difference
Exclusion
Hue
Saturation
Color
Luminosity
Opacity: 100%
Lock:
Background


Lens Flare
Flare Center:
OK
Cancel
Brightness: 150 %
Lens Type
● 50-300mm Zoom
○ 35mm Prime
○ 105mm Prime
○ Movie Prime

01 Create a 50% grey layer

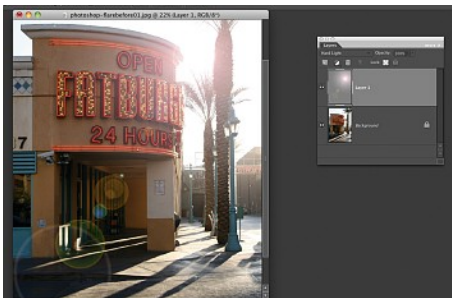
The **Lens Flare** effect is going to be applied to a separate layer above the image, but this needs to be filled with pixels for the effect to work. For this you need to use 50% grey – it's important to use this value for the **Blend Modes** used in the following steps to work predictably.

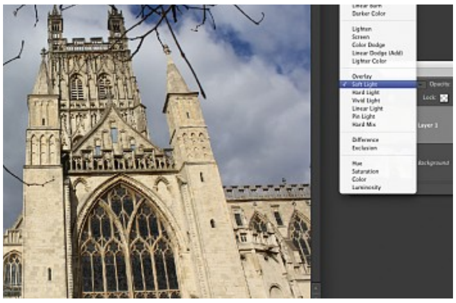
02 Hard Light mode

The next step is to change the grey layer's **Blend Mode** to **Hard Light**. This is one of *Photoshop*'s 'contrast' **Blend Modes**, which darken or lighten the layer below according to their own brightness values; so far the 50% grey we've used means it has a neutral effect…

03 Add some lens flare

Now to apply the **Lens Flare** filter to this new **Hard Light** layer. It's slightly tricky to position because you no longer see the underlying image (the filter only shows the 50% grey layer, even when you've changed the **Blend Mode**). For now, just position it roughly.


OPEN
FATBURGER
24 HOURS

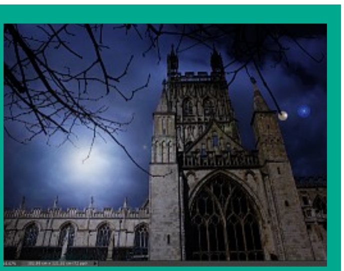


04 Position and scale

This is the result. The lens flare looks as it would if it had been applied directly to the image, but it's actually on a separate layer. So you can move it around into a more realistic or exact position if you need to. (Also, increase the layer's scale to cover the full image area.)

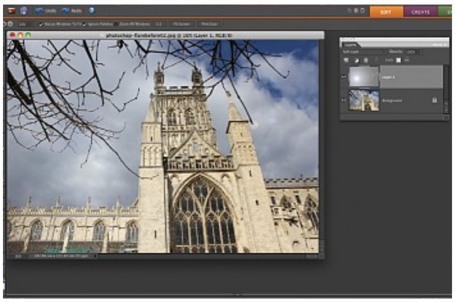
05 A more creative use

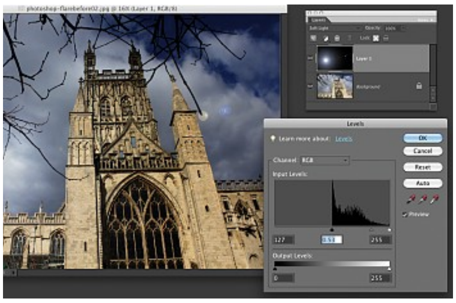
So far we've just applied the effect to a separate layer and stuck to the normal lens flare appearance. But by using layers it's possible to generate more creative effects. Here, we've started with a 50% grey layer again, but this time set to the **Soft Light** mode.

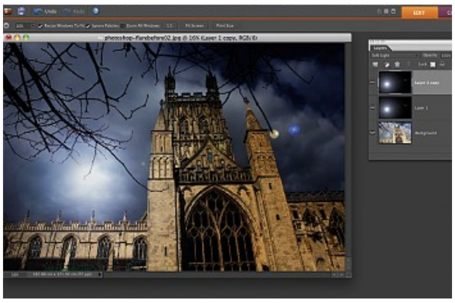


>> QUICK TIP

You can adjust the image's colour and the flare effect separately. Here, a blue-colour fill layer directly above the image (50% opacity, **Multiply** mode) emphasises the 'moonlit' look. Also try adjusting the red, green and blue channels in the **Levels** dialog.




Levels
OK
Cancel
Reset
Auto
Preview
Channel: RGB
Input Levels:
Output Levels:



06 Applying the flare effect

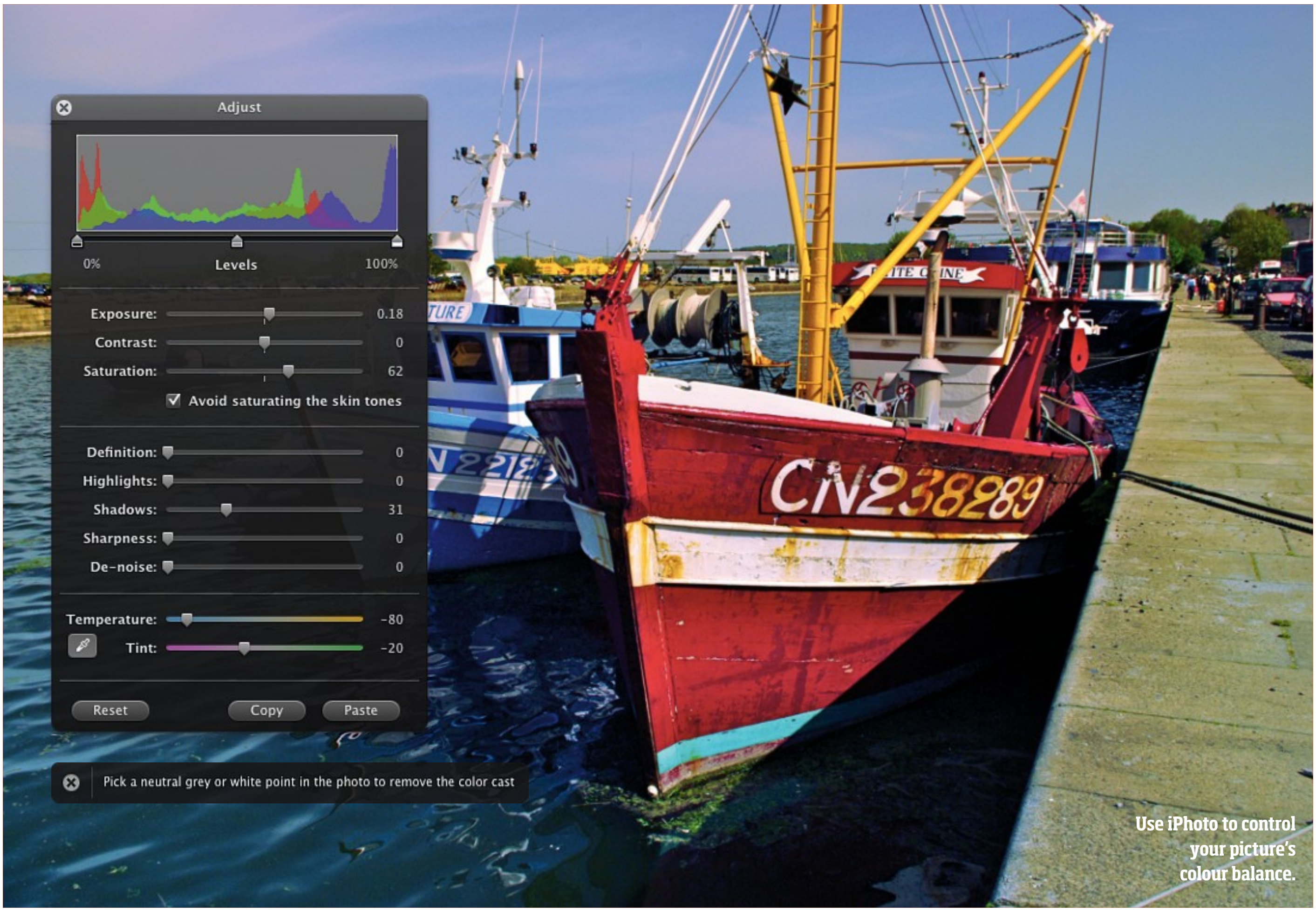
We've applied the effect to this new layer again, but this time it's barely visible. This is because the **Soft Light** mode has a much weaker effect than the **Hard Light** mode, but this also makes it more controllable (or try **Overlay** mode, which is the middle ground).

07 Adjust the levels

Open the **Levels** dialog for the lens flare layer. The histogram doesn't even start until the 50% grey value – currently the **Lens Flare** filter has a lightening effect only. But by dragging the black point slider to the start of the histogram you can create a much darker effect.

08 Stronger effects

Duplicating the adjusted lens flare layer will make the contrast increase even stronger (switching to **Overlay** mode will achieve a similar result). It's had a striking impact here, turning ordinary, flat daylight into a striking semi-moonlit effect. ●



Exposure: 0.18
Contrast: 0
Saturation: 62
☑ Avoid saturating the skin tones
Definition: 0
Highlights: 0
Shadows: 31
Sharpness: 0
De-noise: 0
Temperature: -80
Tint: -20

Pick a neutral grey or white point in the photo to remove the color cast

Use iPhoto to control your picture's colour balance.

Adjust colours in iPhoto

Have the colours gone wrong in your pictures? iPhoto can fix them in a trice…

»KEY INFO

DIFFICULTY: Intermediate

TIME NEEDED: 20 minutes

WHAT YOU'LL NEED: iPhoto '09

Occasionally you might want to make colour changes to specific areas or subjects in your photographs. For this you'll need a full-blown image-editor, such as *Elements* or *Photoshop*, but if the problem is simply an ugly colour cast or a mistake with the camera's white balance setting, then *iPhoto* is perfect for the job.

White balance is a feature on all digital cameras. The camera captures the image and adjusts the colour balance according to the lighting conditions as it processes it.

It's designed to produce neutral colours in a whole range of lighting conditions, but it can also cause as many problems as it solves. Often, cameras don't correct sufficiently for tricky conditions, or you may leave the camera on the wrong setting when you go out shooting.

This is one reason why the raw option on digital SLRs is so popular with keen photographers. Here, the camera doesn't process the image at all. It embeds the white balance setting you've chosen in the raw file, but you're free to choose a completely different one when you open it up for editing.

> *"The camera captures the image and adjusts the colour balance according to the lighting conditions"*

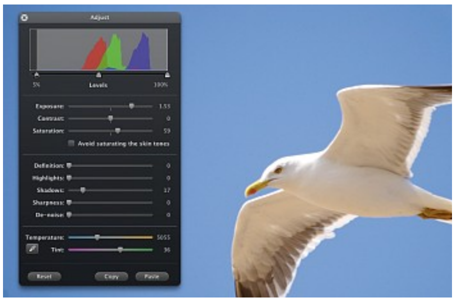
But even if you don't shoot raw files, it's not too late. It's still possible to correct the colours in *iPhoto*. Do this manually, using the white balance sliders, or use the white balance eyedropper to do it automatically. Both approaches are demonstrated in our walkthrough.

The automatic adjustment is fine if you just want to neutralise the colours, but the manual sliders are useful if you can't find a neutral area to click on with the eyedropper, or if you want to create a specific effect.

If you find the perfect setting for one photo, click Copy in the Adjust panel, open up other photos and use the Paste button to apply the same adjustment to these.

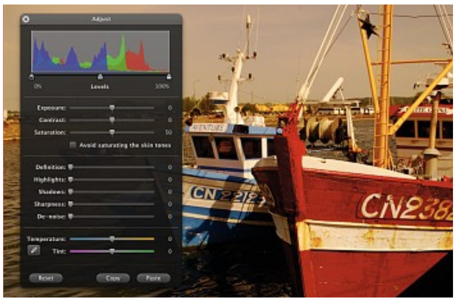
Rod Lawton

HOW TO / Fix your images' colour balance



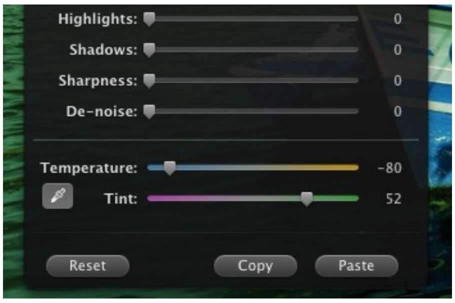
01 Raw files

When you open a raw file in *iPhoto*, the white balance adjustments look different because *iPhoto* reads the data in the raw file. The **Temperature** and **Tint** sliders show values the camera has saved, but you can choose your own values without losing any quality.



02 JPEG files

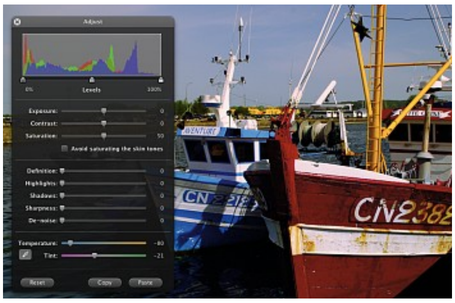
If you shoot a JPEG file, the white balance setting on the camera is applied as the photo is saved. It's too late for *iPhoto* to override, so it provides sliders for the colour temperature and tint values. You're applying one white balance adjustment on top of another.



Highlights: 0
Shadows: 0
Sharpness: 0
De-noise: 0
Temperature: -80
Tint: 52

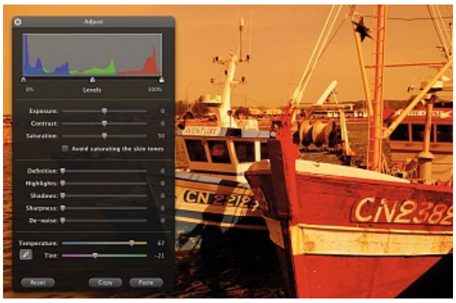
03 White balance eyedropper

Setting colour temperature and tint values manually is tricky, so fix colours with the white balance eyedropper. Click an area of the photo (here, we've gone for the white paintwork on the red boat), which should be a neutral tone. However, now it looks too green…



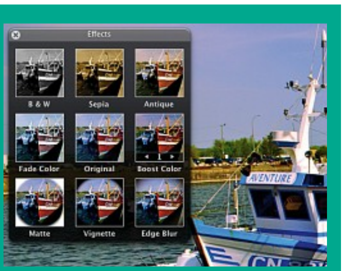
04 Second attempts

What should be a neutral tone will often produce colours that still aren't right. Here, it's clear that the jetty should be grey, not green. Clicking on this with the eyedropper produces a near-perfect result. It often takes two or three attempts to get the perfect colour balance.



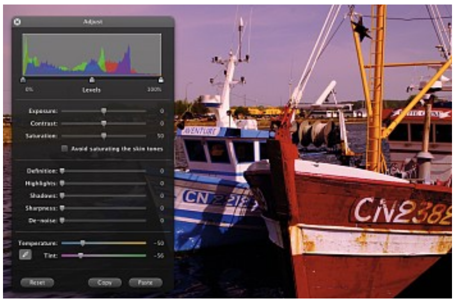
05 Colour temperature

Experiment with the sliders. The colour temperature slider applies colour shifts along a blue-yellow axis. Pushing to the left gives a colder, bluer tone, while to the right gives a strong yellow cast. Use this to create a sunset effect, for example… but there are better ways.



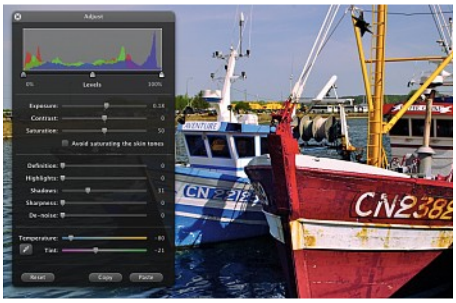
QUICK TIP

How can you create a feeling of depth and warmth in your photos? Try *iPhoto's* **Boost Color** effect. This does more than just increase the saturation. It also applies a subtle warm tone and appears to increase the contrast slightly too.



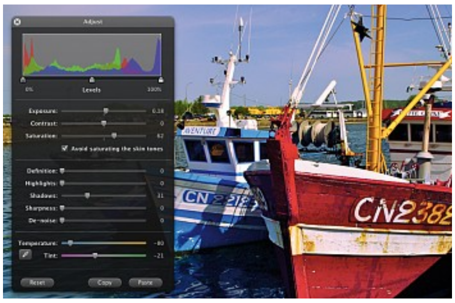
06 Tint

As well as colour temperature adjustment, digital cameras have 'tint' adjustment, which applies a red-green correction. Realistic white balance adjustments have both colour temperature and tint values. We've created a warm, red tone using both.



07 Exposure and shadows

White balance adjustments can reveal issues such as underexposure. This photo has been improved by adjusting the shadow's slider, which lightens up the darker tones without affecting the rest of the photo (a big adjustment would have overexposed the highlights).



08 Increasing saturation

The white balance and shadows adjustments have brought the colours to life (we can give them a tweak with the saturation slider). Keep an eye on the histogram, because if any colours are clipped, they'll lose subtle textures and come out as solid colour. ●

iMovie File Edit View Text Share Window Help
Steve Paris
iMovie
Project Library
Project – Sub Tropical
Import From: Built-in iSight
REC 00:01:03
Stop
Camera: Built-in iSight
Event Library
Last Import
iPhoto Videos
2010
2009
2008
Show: Favorites and Unmarked
6:37 total
MacBook Pro

Be the star of your very own film thanks to the Mac's built-in iSight camera.

Record a video with iSight

Use your Mac's built-in iSight camera to record footage for your iMovie project

>> KEY INFO

DIFFICULTY:
Beginner

TIME NEEDED:
25 minutes

WHAT YOU'LL NEED:
iMovie '08 or later, a Mac with a built-in, iSight camera, a basic understanding of iMovie's interface

Apple's *iMovie* is a very versatile video-editing program, capable of taking almost any footage (at least any format that *QuickTime* can read natively without the help of third-party plugins), and use it in any of your projects.

This could be a clip taken with your digital stills camera and stored in your *iPhoto* or *Aperture* library, material shot on a FireWire-equipped tape-based camcorder, or one of the latest hard drive camcorders that connect to your Mac via USB 2.0.

No matter where your clip comes from, *iMovie* will adapt it to fit the needs of your project's formats. If you're working on a 4:3 project, for instance, and the clip you wish to add has a 16:9 widescreen aspect ratio, *iMovie* will automatically zoom into your clip, cropping it left and right in order to avoid any black letterbox rectangles on the edges. You can also alter this manually by using the Crop tool, even adding a Ken Burns effect to your clip over time should you need to.

But what if you don't have a camera handy or need to add some footage quickly to an existing project? Unless you own a Mac Pro or Mac mini, the chances are your Mac comes with a webcam built-in and you can make use of it easily.

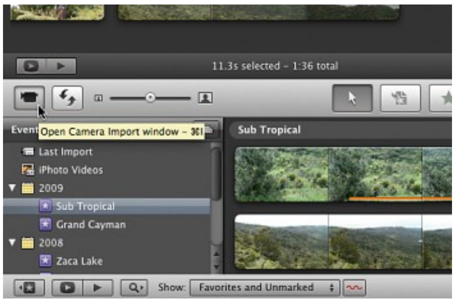
> *"No matter where your clip comes from, iMovie will adapt it to fit the needs of your project's formats"*

Turn your Mac into a portable recording studio, taping anywhere, building your project as you go. As long as you've set the place you'll be recording in with enough lighting, you'll only need to hit Record. You don't need fancy equipment: just make sure the household light illuminates your face and is in front of you. If the only light source is behind you, all you'll end up seeing is a dark shape. When taping outside, all you'll need is the sun.

So, with your location set up, let's see what *iMovie* and iSight can do.

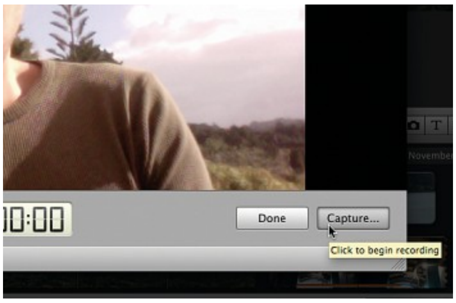
Steve Paris

» HOW TO / Record a video with iSight


11.3s selected – 1:36 total
Open Camera Import window – ⌘I
Sub Tropical
Last Import
iPhoto Videos
2009
Sub Tropical
Grand Cayman
2008
Zaca Lake
Show: Favorites and Unmarked

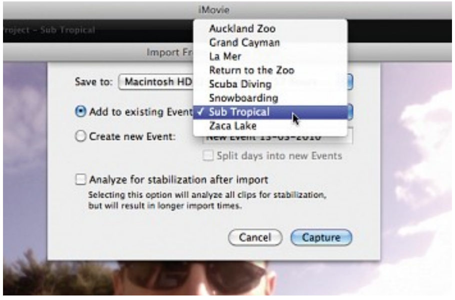
01 Importing from a camera

Open *iMovie* and, without connecting your camcorder to your Mac, click on the Toolbar's **Camera** icon (first one on the left, conveniently bearing a camera symbol). Going to File > Import from **Camera**; using the ⌘+I keyboard shortcut has the same effect.


0:00
Done
Capture...
Click to begin recording

02 Through the looking glass

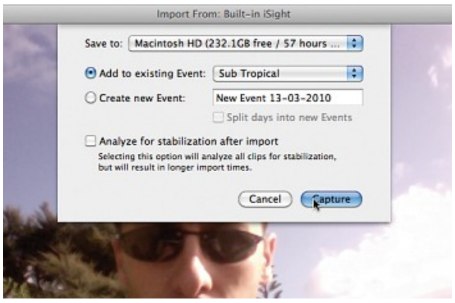
This action opens up a new window and your iSight camera is automatically turned on. Unlike other apps, such as *iChat* or *PhotoBooth*, what you see is not your mirror image but what the camera actually sees. When ready, click on the **Capture** button.


iMovie
Import From
Save to: Macintosh HD
Add to existing Event
Create new Event:
Auckland Zoo
Grand Cayman
La Mer
Return to the Zoo
Scuba Diving
Snowboarding
✓ Sub Tropical
Zaca Lake
Split days into new Events
Analyze for stabilization after import
Cancel
Capture

Selecting this option will analyze all clips for stabilization, but will result in longer import times.

03 Saved location

Before the capture actually starts, you need to tell *iMovie* where to save your clip. You can add it to an existing event or create a new one. You can also choose which drive to save it to if you have multiple devices connected to your Mac.


Cancel
Capture

Import From: Built-in iSight

Save to: Macintosh HD (232.1GB free / 57 hours ...

● Add to existing Event: Sub Tropical

○ Create new Event: New Event 13-03-2010

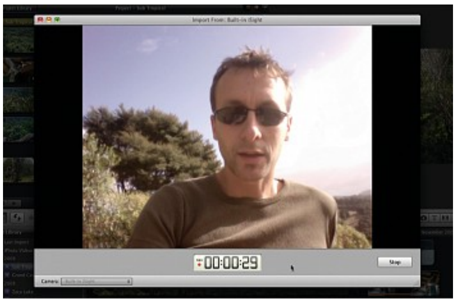
☐ Split days into new Events

☐ Analyze for stabilization after import

Selecting this option will analyze all clips for stabilization, but will result in longer import times.

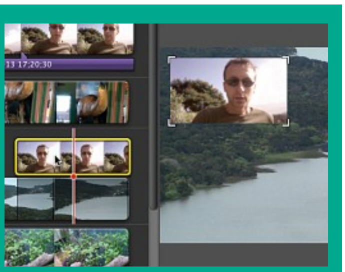
04 No stabilisation required

Unless you're holding your laptop and moving around, don't tick the **Analyse for stabilisation after import**. If your Mac is resting on a table, your recording will already be perfectly steady. To start taping yourself, click on that window's **Capture** button.


Import From: Built-in iSight
00:00:29
Stop

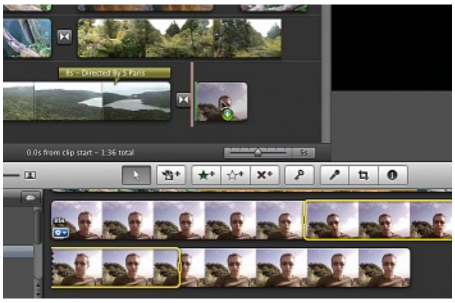
05 Lights, camera, action!

Recording will start immediately. The timer at the bottom of the window will activate and a red circle will appear to show *iMovie* is taping. To end the session, either click the **Stop** button or hit [Spacebar]. Your footage will be saved and appear in the chosen Event.



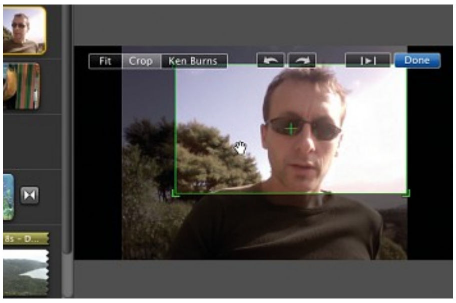
» QUICK TIP

If you have *iMovie '09*, you could also use that program's picture-in-picture feature to place yourself in a small corner of the screen, so you can comment on the events and still be seen. To do this, have a look at the *QuickTime X* tutorial, on page 58.


0.0s from clip start – 1:36 total

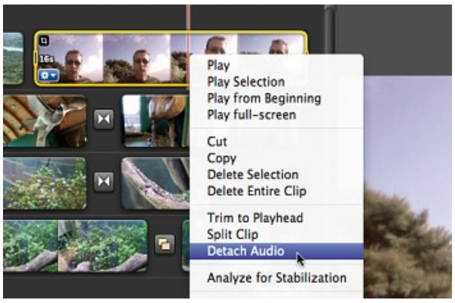
06 Like any other

You can use this recording just like any other stored in *iMovie* – click a section and add it to your project. By default, the iSight camera records in a 4:3 format (640x480 pixels). If you're adding it to a widescreen project, its top and bottom will be automatically cropped.


Fit
Crop
Ken Burns
Done

07 Cropping and zooming

To alter that cropping, make sure your clip is selected in your project and click the Toolbar's **Crop** button (or hit C). You can move the cropping marker around. You can also drag the corners inwards to zoom into your footage (although not too much to avoid pixelation).


16s
Play
Play Selection
Play from Beginning
Play full-screen
Cut
Copy
Delete Selection
Delete Entire Clip
Trim to Playhead
Split Clip
Detach Audio
Analyze for Stabilization

08 Just the voice

If you just want to use audio and discard the video, ctrl-click on the clip and choose **Detach Audio**. A purple banner will appear beneath your clip, representing the audio track. You can then delete the video and drag the audio over any section you wish. ●

Apply GarageBand effects

Add character and space to your recordings with built-in effects

» KEY INFO

DIFFICULTY:
Intermediate

TIME NEEDED:
15 minutes

WHAT YOU'LL NEED:
GarageBand '09 (part of the iLife '09 suite from Apple), this tutorial assumes basic GarageBand knowledge

Effects are an important part of recorded audio in *GarageBand*. They enable you to subtly or radically alter how things sound by passing tracks, or an entire song, through one or more plug-ins.

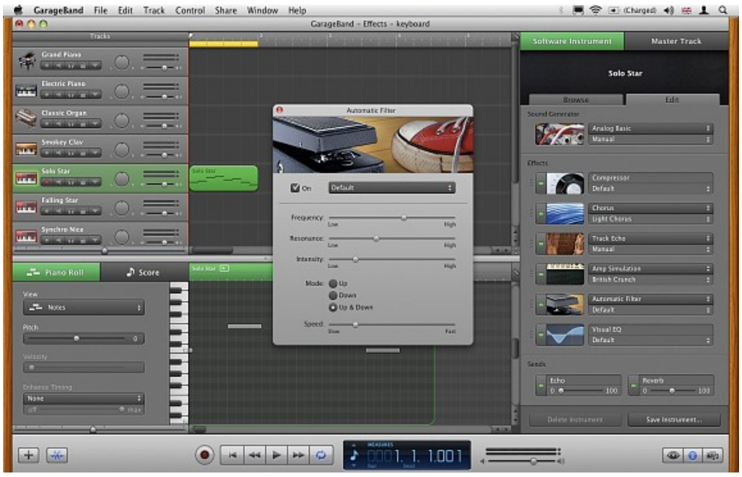
Sometimes you'll work with effects early on, in order to amend a stock instrument's sound to make it more interesting (see 'Dirty up sounds for added texture' at the bottom of the opposite page for a quick-fire example of this). At other times, effects will be used to fine-tune your recording during the mixing process.

Although the effects interface in *GarageBand '09* has changed radically, it still works in much the same way as it used to: in the **Track Info** pane, each track can have a number of effects applied. Most effects have a number of presets, but you can also open an **Edit** window to adjust settings and then save your customised sound as a named preset so you can use it in other songs or tracks.

With such a huge range of audio toys to play with, it's pretty easy to get carried away and newcomers often drown their songs in effects. Generally, though, this is a bad idea. Take care not to go overboard and instead use them relatively sparingly. During recording, try to keep your recorded elements separate, so that they can have effects applied independently. One place this may not be apparent is when you're working with software instrument drums. These are typically added on one track, but it's best to place each instrument – kick, snare, hi-hat and so on – on its own track.

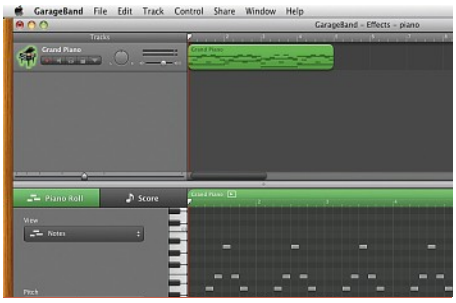
> *"With such a huge range of toys to play with it's pretty easy to get carried away"*

Finally, experiment. *GarageBand* has so many effects that only by messing about with them will you get a real feel for what they can do. **Craig Grannell**



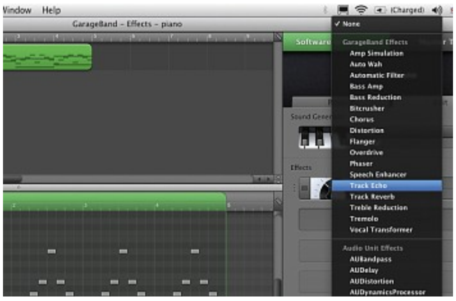
GarageBand offers a huge range of configurable effects to add real polish to your tracks.

» HOW TO / Add delay and reverb to an audio region



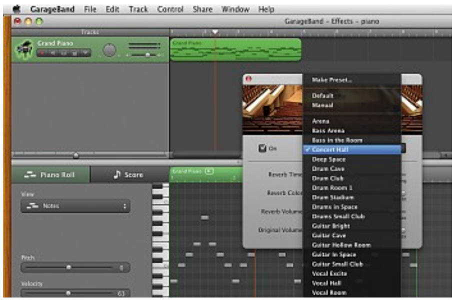
01 Record a melody

Create a new **Piano** project and record a repetitive melody (or ⌥-click in the timeline, drag the region to four bars long and 'draw' notes in the **Track Editor**). We've repeated the notes A3/C3/D3/E3/A4/E3/D3/C3 in a loop.



02 Add effects

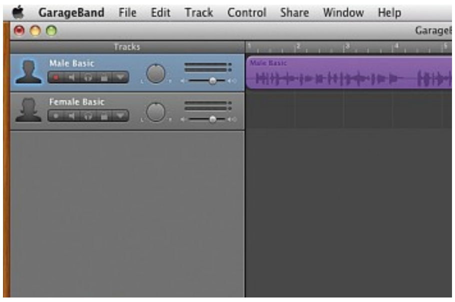
Double-click the track header to access the **Track Info** pane and click the **Edit** tab. Click the space under **Compressor** and select **Track Echo**. This adds delay to the track and locks it to the song's tempo, echoing the delay in time.

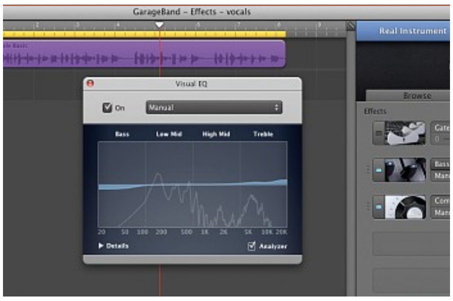


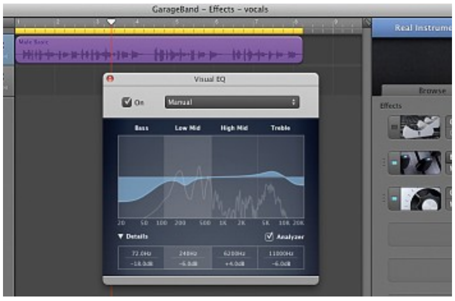
03 Add a Track Reverb

In the space below, add a **Track Reverb** effect in the same way. Reverb adds 'space' to the sound. Again, click the icon to access settings. For example, increase the **Time** and **Volume** settings to 50% to increase the reverb.

HOW TO / Use effects to enhance vocals


GarageBand File Edit Track Control Share Window Help
Tracks
Male Basic
Female Basic


GarageBand – Effects – vocals
Visual EQ
On
Manual
Bass
Low Mid
High Mid
Treble
Details
Analyzer


GarageBand – Effects – vocals
Visual EQ
On
Manual
Bass
Low Mid
High Mid
Treble
Details
Analyzer

01 Create a Voice project

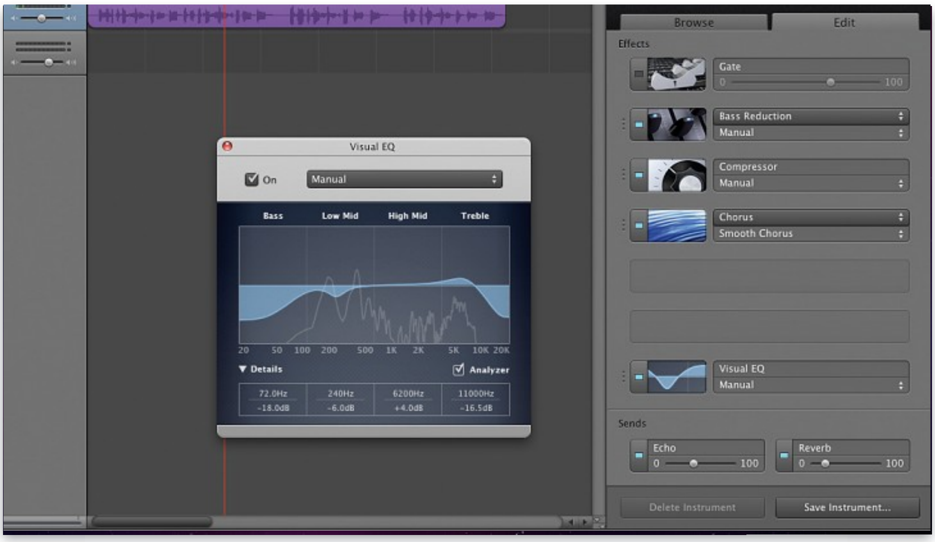
Some professional recordings offer 'dry' vocals, but most have at least a little reverb, delay and chorus. Create a new **Voice** project to get started and record some singing. When you're done, open the **Track Info** pane.

02 Added effects

Cycle your recorded audio region, click **Play** and click the icon button next to **Visual EQ**. Check **Analyzer** and in the **Visual EQ** edit window you'll see the frequencies of your vocals. The curve shows EQ amendments.

03 Make adjustments

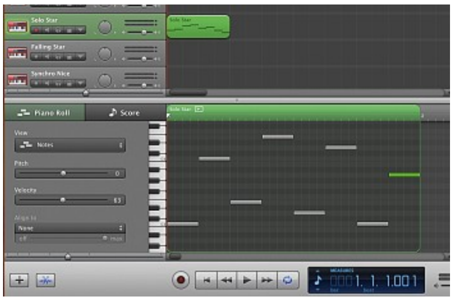
Compare your vocals with the curve and make adjustments. Toggle the **Details** section for precise details regarding amended frequencies. To adjust the curve, click a point within it and drag.

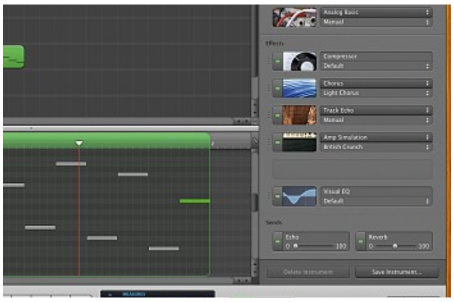

Browse
Edit
Effects
Gate
Bass Reduction
Manual
Compressor
Manual
Chorus
Smooth Chorus
Visual EQ
Manual
Sends
Echo
Reverb
Delete Instrument
Save Instrument...
Visual EQ
On
Manual
Bass
Low Mid
High Mid
Treble
20 50 100 200 500 1K 2K 5K 10K 20K
Details
Analyzer
72.0Hz -18.0dB
240Hz -6.0dB
6200Hz +4.0dB
11000Hz -16.5dB

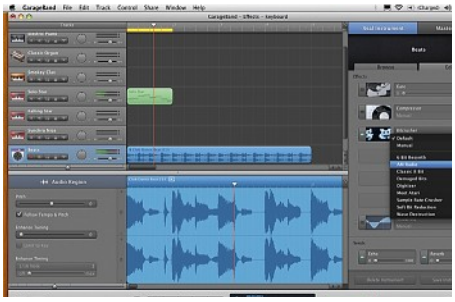
04 Further vocal effects

Drop bass for males and high-mid for females, and boost low treble, but drop very high-end treble if you have a problem with overly apparent 's' sounds. To thicken a vocal, duplicate your track (⌘+D), and apply **Chorus (Smooth Chorus)** and **Echo** (40%) to the copy. Drop its volume, so it doesn't 'fight' with the original. The high-end EQ may also need dropping, so layered 's' noises don't irritate. Also try replacing this track's audio with a second vocal take for a more natural chorus effect.

HOW TO / Dirty up sounds for added texture


Solo Star
Falling Star
Synchro Nice
Piano Roll
Score


Analog Basic
Compressor
Chorus
Track Echo
Amp Simulation
British Crunch
Visual EQ
Echo
Reverb


GarageBand File Edit Track Control Share Window Help

01 Create new project

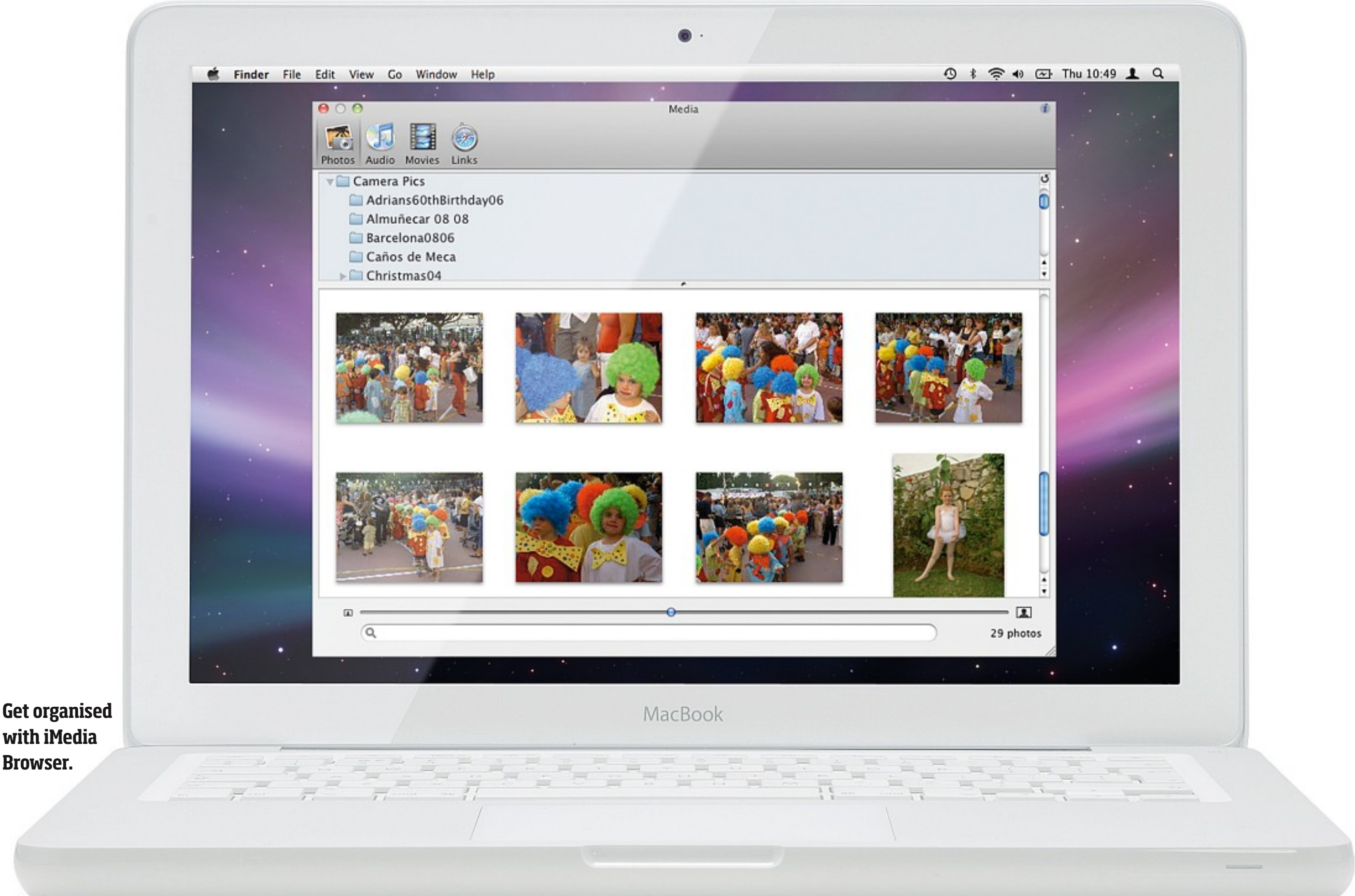
Create a **New Keyboard Collection** project and add a two-bar region to the Solo Star track by ⌥-clicking. Open **Track Editor** and add the notes (C3/C4/E3/E4/D3/D4/C3/A3). Click **Cycle**. Define the cycle region as shown.

02 Make it crunchy

Click **Play**, double-click the Solo Star track header and select the **Edit** tab in the **Track Info** pane. Below **Track Echo** select **Amp Simulation** then **British Crunch**. Drag **Reverb** to about 50% and click the **Compressor** effect.

03 Make Apple Loops dirty

Open the **Loop Browser**, select **All Drums** and **Electronic**, and drag **Club Dance Beat 13** to the start of the timeline. Double-click its header, select the **Edit** tab and then add a **Bitcrusher** effect, set to **AM Radio**. ●



Get organised with iMedia Browser.

Manage your media files

Get easy access to your photo, music and videos with iMedia Browser

>> KEY INFO

DIFFICULTY: Beginner

TIME NEEDED: 15 minutes

WHAT YOU'LL NEED: iMedia Browser

There is one particular feature built into OS X that will often go unnoticed and that is its media browser. You might well have overlooked this because it's something that only becomes available when you're working with certain applications. For example, you can see it in action right now by opening *Safari* and clicking File > Open and, in the sidebar at the bottom, you'll find the media section. The problem with the media browser in OS X is that it's not visible in all applications. Furthermore, it will only display the media files appropriate to the application you're working with. Fortunately, there's a solution in the form of *iMedia Browser* from www.karelia.com. This comes in the form of a standalone tool that provides you with instant access to the media files on your Mac.

The program places these files into four distinct categories: there's **Photos**, **Audio**, **Movies** and **Links**, the latter displaying bookmarks from any web browsers you've installed. Even though your media files may be stored in different locations on your Mac, *iMedia* conveniently brings them together.

> *"The program places these files into four distinct categories: there's Photos, Audio, Movies and Links"*

There's no need to move between different folders and applications to view these files, since **iMedia Browser** provides you with a single point of reference. Finding what you need is easy. You get a scalable thumbnail preview for photos and a mini media player for listening to audio tracks. The program does a good job of listing your source media folders. If any have been missed or you need to include newly created folders, these can be added easily.

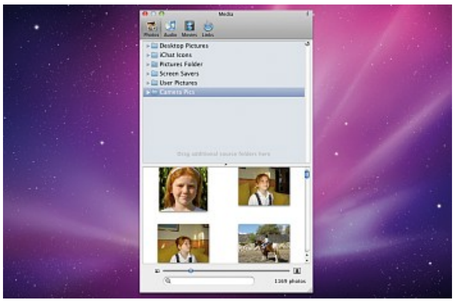
Locate the *iMedia Browser* on your disc this month, then copy the application file to your **Applications** folder. Once you're ready you can follow our tutorial here to get you started. Enjoy!

Paul Townsend

>> ON THE DISC

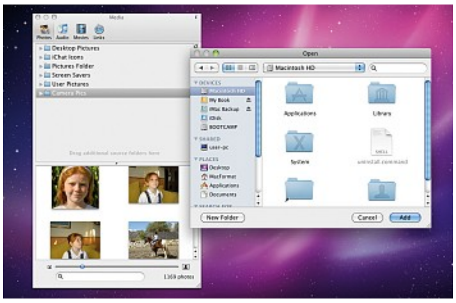
iMedia Browser is on the disc.

HOW TO / Sort out your files with iMedia Browser



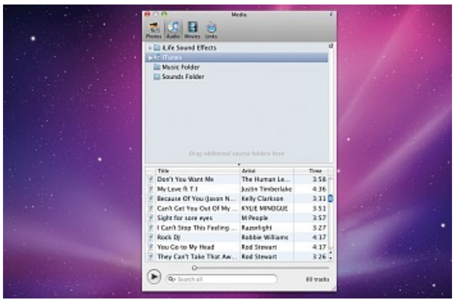
01 Browse photos

Open *iMedia Browser* and select **Photo**. All the folders on your Mac that contain image files will be listed. Locations on your Mac that contain images will be displayed. As you switch between folders the thumbnail previews change. Use the slider to adjust their size.



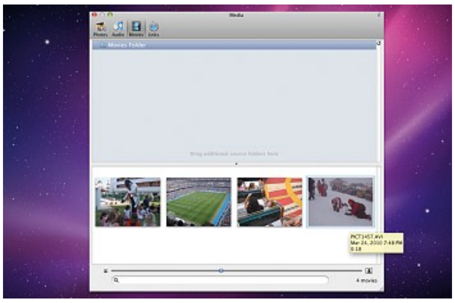
02 Add source folders

If the folder you want to use isn't listed then drag it onto the *iMedia Browser* window to make it available. Alternatively, hold down ctrl and click to add a folder manually. To use photos in the *iMedia Browser* simply drag them into the required application.



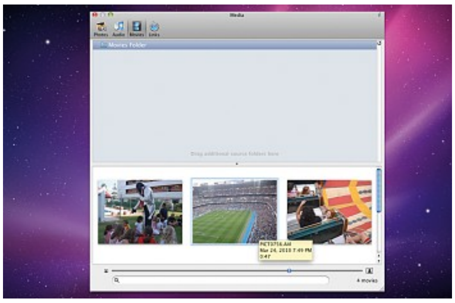
03 View audio files

The **Audio** section of the *iMedia Browser* displays sounds as well music tracks. You can see all the songs stored in *iTunes*. Sort files by clicking on column headings to display them in a different order. Preview a song or sound by double-clicking its filename.



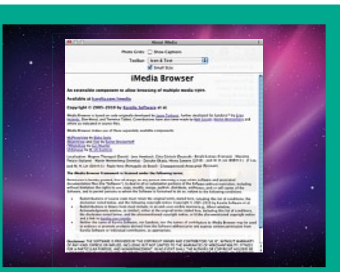
04 Browse movies

The **Movies** category displays movie files from *iPhoto*, *iTunes* and your Movies folder. To preview a movie simply double-click its thumbnail. Instead of opening a media player, the thumbnail turns into a live preview. Use the slider to change the display size.



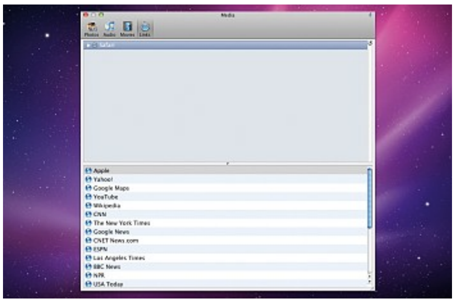
05 Preview movies

You'll notice there aren't any player controls when previewing movies. That's because all you need is your mouse. Move the pointer over a video, click to select it then use the scroll feature of your mouse to rewind or fast-forward the action in your clip.



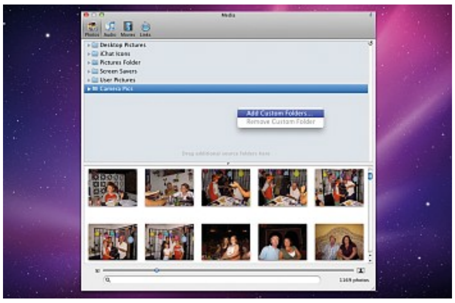
QUICK TIP

Click the **i** button in the top-right corner of *iMedia Browser* to reveal the **About Media Browser** window. This has additional options for toolbar appearance and photo file display. Check **Show Captions** for thumbnails to display filenames.



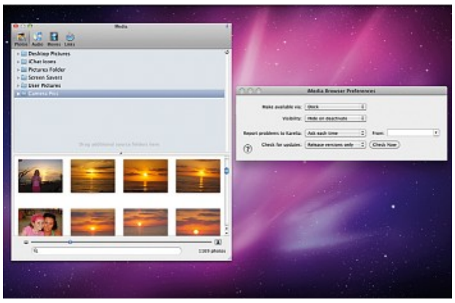
06 Quick links

As well as photos, videos and music, the *iMedia Browser* will store details of your internet favourites. If you have more than one browser installed it can display the bookmarks from each application. Click on a link to access that site in your default browser.



07 Updating source folders

iMedia Browser doesn't update its source folders dynamically. Therefore, if you make changes to the contents of one of its source folders you'll need to refresh the display of *iMedia Browser*. Do this by clicking on the refresh button above the scroll bar.



08 Program settings

Click on *iMedia Browser* on the menu bar and select **Preferences**. Use the settings to keep the program visible at all times and on top of other apps. Click on **Make available via** and keep *iMedia Browser* in the Dock or as a quick access icon to the right of the menu bar. ●

Share data with your iPhone

How to share all kinds of files and data between your Mac and iPhone

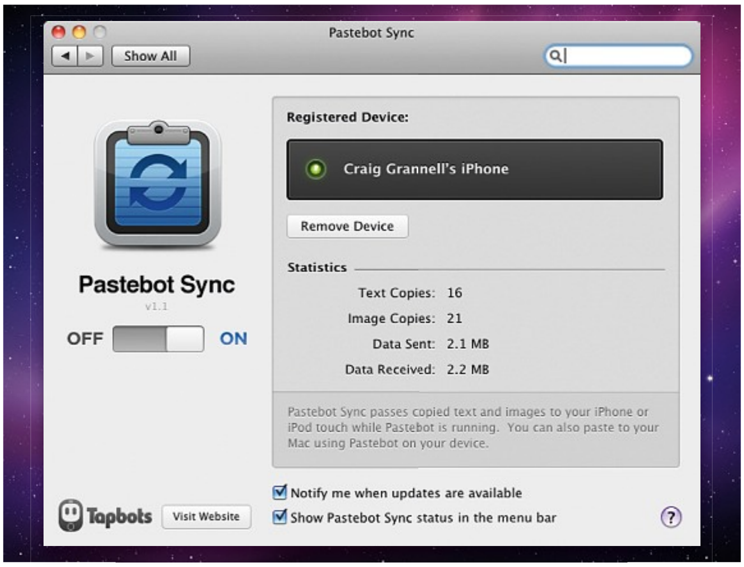
>> KEY INFO

DIFFICULTY
Intermediate

TIME NEEDED
10 minutes
(per app)

WHAT YOU'LL NEED
Dropbox (requires Mac OS X 10.4+), Pastebot Sync (requires Mac OS X 10.5+), a (personal) Wi-Fi network, an iPhone or iPod touch, Air Sharing or Air Sharing Pro, Pastebot, GoodReader, Dropbox (all apps require iPhone OS 3.0+).

One of the criticisms of iPhone OS, the operating system that's used on the iPod touch and iPhone, is that it's a very closed system. The benefits are clear in terms of stability (Apple controls everything) and security (again, Apple controls everything), but the big drawback is that unless you jailbreak your device, you can't do anything you want with it. Over time, Apple's made various improvements that have resulted in jailbreaking being unnecessary for the vast majority of users, but there remains a big shortfall when it comes to data synchronisation and copying.



Registered Device:
Craig Grannell's iPhone

Statistics
Text Copies: 16
Image Copies: 21
Data Sent: 2.1 MB
Data Received: 2.2 MB

Pastebot Sync passes copied text and images to your iPhone or iPod touch while Pastebot is running. You can also paste to your Mac using Pastebot on your device.

☑ Notify me when updates are available
☑ Show Pastebot Sync status in the menu bar

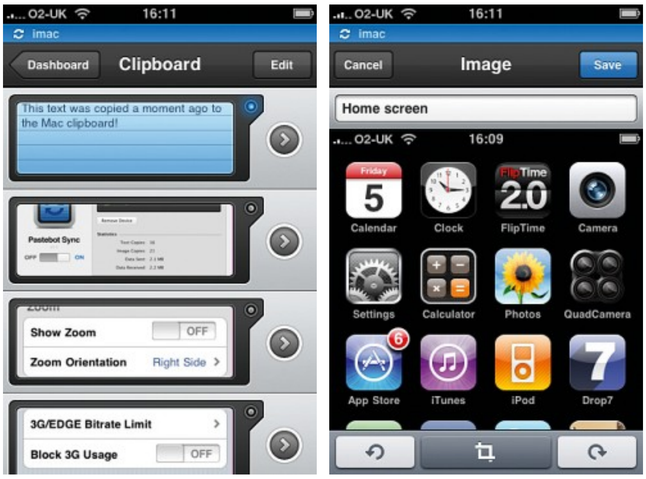
Pastebot Sync installs as a System Preferences pane and it's insanely easy to use.

On older iPods, in *iTunes*, you could usually set aside a chunk of drive space for storing documents, which could be copied across using *Finder*. This turned your music player into a memory stick of sorts, although, unsurprisingly, this didn't magically enable you to somehow read an important PDF on an iPod shuffle. With an iPhone, despite the lovely screen and usable interface, things are even more restrictive – you can only sync and copy data that Apple allows you to. By selecting various options in *iTunes*, you can sync and copy music, videos, photos, *Safari* bookmarks, *Mail* email and notes, *iCal* calendars and *Address Book* contacts; but for arbitrary files, Apple seems to be suggesting that email's the way to get data on and off an iPhone.

For very occasional copies, email is perhaps fine, but it's ultimately a kludge, and it certainly lacks the elegance and flexibility Mac users are used to. Maybe one day Apple will expand storage options for the iPhone, but in the meantime we're left wondering if "there's an app for that". As it turns out, there are loads. Pretty much every time Apple omits functionality from its mobile devices, someone enables you to plug the gaps for a few quid. On the following page we take a look at four apps that enable you to share many more file types than Apple's built-in software.

> *"On the following page we look at four apps that enable you to share many more file types than Apple's built-in software"*

Pastebot can grab your Mac's clipboard data (below left) and enables you to edit clippings (below right).



This text was copied a moment ago to the Mac clipboard!

Show Zoom OFF
Zoom Orientation Right Side
3G/EDGE Bitrate Limit
Block 3G Usage OFF

Before you get started with the apps, there are some things you need to do. We've made the assumption that you're running Mac OS X 10.5 or 10.6 on your Mac, and iPhone OS 3 on your iPhone (or iPod touch – the apps work on either Apple device). If not, upgrade accordingly. Since the applications require wireless networking, we also assume you have a Wi-Fi network happily doing its thing and that your Mac and iPhone are connected.

Regarding the apps, there's some crossover, so decide what kinds of data you'd like to share before you buy anything. For quick-fire storage and syncing, *Dropbox* is free, but if you require *Finder*-like file management and superior preview options, one of the *Air Sharing* apps is a good bet. If you're only interested in PDFs (sharing and reading), *GoodReader* does the job; and for sharing clipboard data, *Pastebot* is the only option. Then again, even if you splash out for the *Pro* version of *Air Sharing*, the total cost for all these apps is £8.37, which hardly breaks the bank, and we find each of them invaluable and use them on a regular basis.

Craig Grannell

HOW TO / Share data with your iPhone

01 Sync files

For online sync-based backups, *SugarSync* betters *Dropbox*. However, to get some files onto your iPhone (or make it so you can later access them), *Dropbox* is a great free solution. To start, download the Mac client from **www.dropbox.com**, install and launch. In the setup dialog, create an account or input your account details. If creating a new account, select the free 2GB plan.

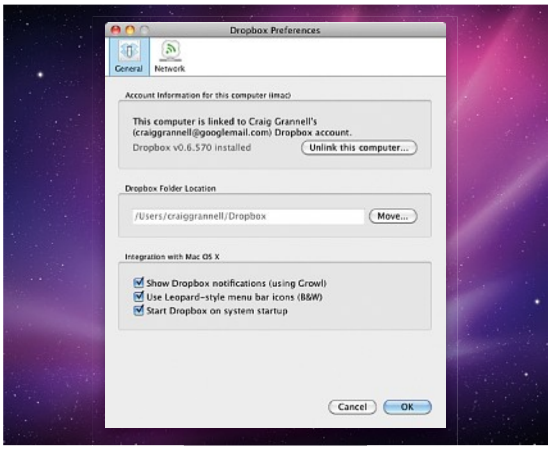
Your **Home** folder should now contain a **Dropbox** folder. Copy to it files you'd like to share. The menu bar extra shows when uploading is complete. Install the free *Dropbox* app on your iPhone and input your *Dropbox* account details. Tap **My Dropbox** to display a list of the files you copied earlier. To view a file, tap it – *Dropbox* supports *Office* and *iWork* files, PDFs and images. Unlike *Dropbox* for the Mac, the iPhone app doesn't automatically download synchronised files – to store something permanently for offline use, view it and tap the star icon to define it as a favourite, which can later be accessed via the **Favourites** toolbar button.

02 Copy and preview documents

For a more *Finder*-like experience, try *Air Sharing*. It comes in two flavours – *Air Sharing* (often on sale, dropping from its regular £2.99 price to £1.19) and the more feature-rich *Air Sharing Pro* (£5.99). A comparison chart is available at **http://avatron.com/apps**.

After installing *Air Sharing*, tap the toolbar's wireless icon to see IP and Bonjour addresses you can use to connect to the app. In *Finder*, go to Go > Connect to Server (⌘+K), type one of the aforementioned addresses in the **Server Address** field and click **Connect**. Select the item that appears in *Finder*'s sidebar (under **Sharing**) to access *Air Sharing*'s storage area. You can create folders and copy files to your iPhone (or back to your Mac).

In *Air Sharing*, your folder structure will be preserved, displayed by default in a view akin to *Finder*'s list view (but without expandable folders). *Air Sharing*'s settings also offer an icon view option. Like *Dropbox*, items can be selected to preview them. The *Pro* version adds bookmarks and file actions.



Account Information for this computer (imac)

This computer is linked to Craig Grannell's (craiggrannell@googlemail.com) Dropbox account.
Dropbox v0.6.570 installed

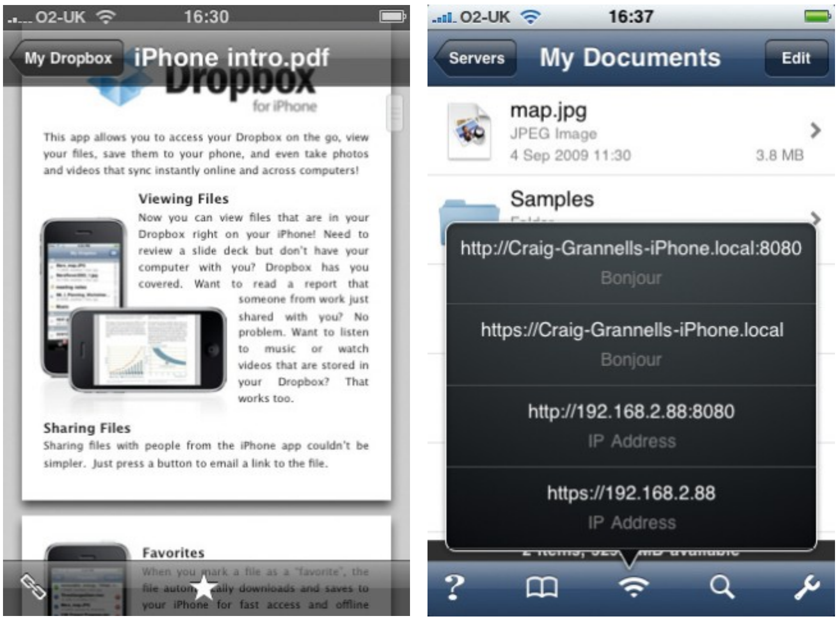
Dropbox Folder Location

/Users/craiggrannell/Dropbox

Integration with Mac OS X

☑ Show Dropbox notifications (using Growl)
☑ Use Leopard-style menu bar icons (B&W)
☑ Start Dropbox on system startup

Set a Dropbox location on your Mac, add files, and access data using any browser or Dropbox client.



This app allows you to access your Dropbox on the go, view your files, save them to your phone, and even take photos and videos that sync instantly online and across computers!

Viewing Files

Now you can view files that are in your Dropbox right on your iPhone! Need to review a slide deck but don't have your computer with you? Dropbox has you covered. Want to read a report that someone from work just shared with you? No problem. Want to listen to music or watch videos that are stored in your Dropbox? That works too.

Sharing Files

Sharing files with people from the iPhone app couldn't be simpler. Just press a button to email a link to the file.

Favorites

When you mark a file as a "favorite", the file automatically downloads and saves to your iPhone for fast access and offline

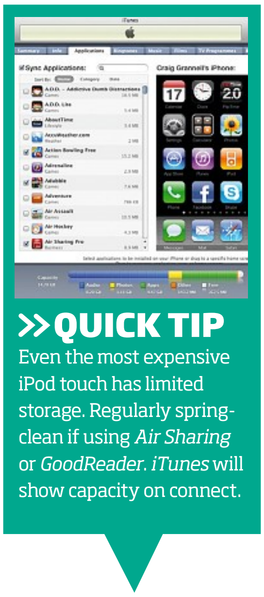
http://Craig-Grannells-iPhone.local:8080
Bonjour

https://Craig-Grannells-iPhone.local
Bonjour

http://192.168.2.88:8080
IP Address

https://192.168.2.88
IP Address

Access content with Dropbox for iPhone (top left); copy documents to your iPhone with Air Sharing.



QUICK TIP

Even the most expensive iPod touch has limited storage. Regularly spring-clean if using *Air Sharing* or *GoodReader*. *iTunes* will show capacity on connect.

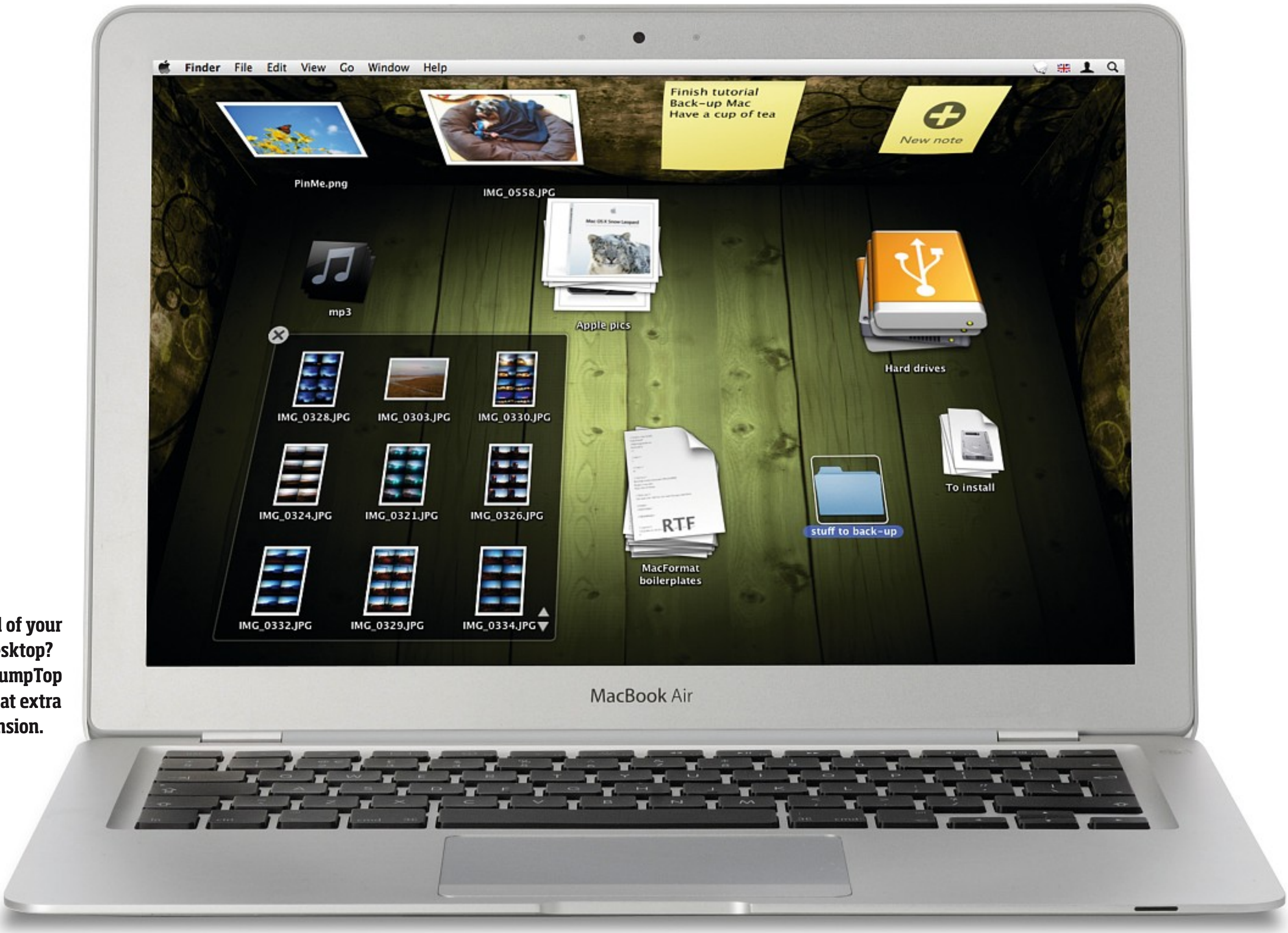
03 Copy and read PDFs

For PDFs use *GoodReader*, which comes in a 59p 'pro' version or a free app that stores only five files (see **www.goodiware.com/goodreader.html** for more info). Launch the app and tap the connection button at the bottom left to see IP and Bonjour addresses. Files and folders added in *Finder* are accessed via **My Documents** on the app's home screen. Open documents are displayed full-screen; to access the interface, tap the screen's centre. There's also a **Web Downloads** option for importing PDFs from MobileMe, Google Docs and *Dropbox*.

04 Share clipboard data

Pastebot (£1.79) shares clipboards rather than files. Install *Pastebot* on your iPhone and the free *Pastebot Sync* from **http://tapbots.com/software/pastebot**. In *Pastebot*, go to **Dashboard**, then **Settings**, then **Sync** and you'll see a four-digit code. Type that into *Pastebot Sync* on your Mac, drag the slider to **On** and you're all set.

When your iPhone's running *Pastebot*, *Pastebot Sync*'s menu item turns blue. Similarly, when *Pastebot Sync*'s active, *Pastebot* displays your Mac's ID. Now for the fun part. On your Mac, copy some text to the clipboard. Within a second or so, it'll be added to *Pastebot*'s clipboard. The reverse is also possible – take a photo, open the *Photos* app, tap-hold your photo in **Photo Roll**. Select **Copy**, then open *Pastebot*. Your copied photo will be automatically pasted as the newest item. On your Mac, switch to *Finder* and click the Desktop. In *Pastebot*, hold the image until you hear a click – it'll appear as a time-stamped file on your desktop. Alternatively, open *Preview*, hold the image in *Pastebot* and use File > New from Clipboard to open the photo you took on your iPhone. Text can also be transferred to Mac text editors in the same way. ●


Finder File Edit View Go Window Help
Finish tutorial
Back-up Mac
Have a cup of tea
New note
PinMe.png
IMG_0558.JPG
mp3
Apple pics
Hard drives
IMG_0328.JPG
IMG_0303.JPG
IMG_0330.JPG
IMG_0324.JPG
IMG_0321.JPG
IMG_0326.JPG
IMG_0332.JPG
IMG_0329.JPG
IMG_0334.JPG
RTF
MacFormat boilerplates
stuff to back-up
To install
MacBook Air

Bored of your 2D Desktop? Try BumpTop for that extra dimension.

Turn your Mac's Desktop 3D

Give yourself more desktop working space with the free BumpTop

>> KEY INFO

DIFFICULTY: Beginner

TIME NEEDED: 5 minutes

WHAT YOU'LL NEED: Mac OS X 10.5+, BumpTop, some files on your Desktop

>> ON THE DISC
BumpTop can be found on your disc.

Computing's not like it is in the movies – it's much flatter. *BumpTop* aims to bring more depth to your Mac desktop experience by turning it into a 3D room. In its default view, you can differentiate files by 'pinning' them to a wall. You can also 'hide' certain files by placing them on the back wall, which is only visible when you navigate there via a couple of clicks.

Despite its 3D viewpoint, *BumpTop* mostly acts like the standard desktop in Mac OS X. You can drag and drop documents, rename items and place them in folders, and clicking on *BumpTop* and pressing ⌘+N opens a new *Finder* window (despite the menu bar not stating *Finder* is active).

The 3D nature of the app also provides more scope for visuals than a flat desktop. Unlike *BumpTop* for Windows, the Mac version doesn't (yet) support prebuilt themes, but you can still download themes from the likes of http://customize.org/bumptop and apply images from the theme's 'desktop' folder. The lead image for this tutorial uses Green Attic by '-mute-' (http://customize.org/bumptop/61024).

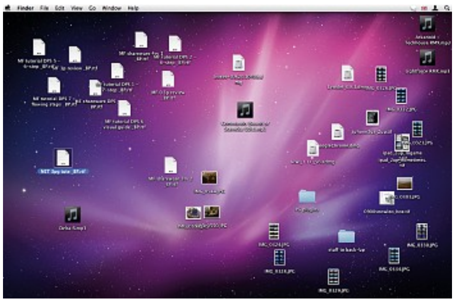
> *"BumpTop includes a feature that's long been expected in Mac OS X but which has remained absent"*

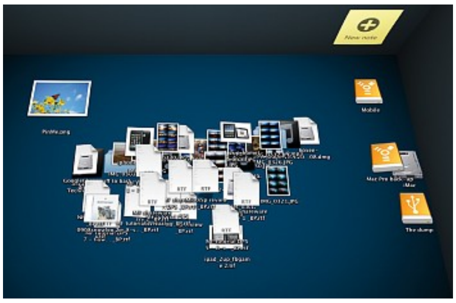
If this was all *BumpTop* offered, it wouldn't excite, but it includes a feature that's long been expected in Mac OS X but which has remained absent: Piles. You can select several documents and create a Pile, which can be named and dragged about as a single entity. You can drag items from it, or add new ones by dropping them on top. Although *BumpTop* is mouse-oriented, most actions have keyboard shortcuts – see http://bumptop.com/mac/support.php.

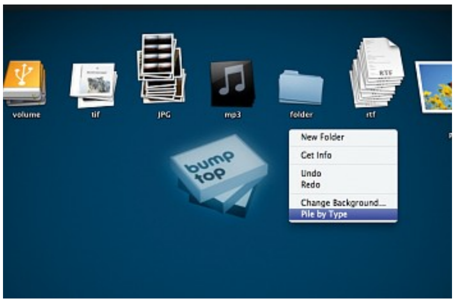
Find *BumpTop* on your disc for free. Register for $29 at http://bumptop.com/mac and you get more features, such as sticky notes, Multi-Touch gestures, find-as-you-type and the ability to flip through Piles.

Craig Grannell

» HOW TO / Create a 3D desktop with BumpTop






volume
tif
JPG
mp3
folder
rtf
bump top
New Folder
Get Info
Undo
Redo
Change Background...
Pile by Type

01 Don't clean your Desktop

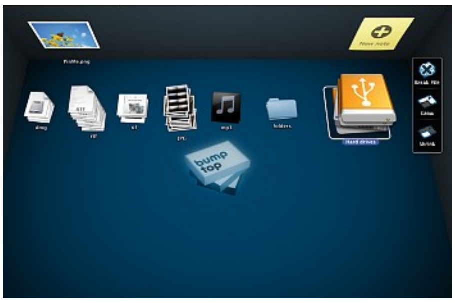
This isn't your typical first step for a *MacFormat* tutorial. The thing is, *BumpTop* depends on your Desktop for content, and so if you've got a load of junk on your Desktop, just leave it alone. (And if not, drag some folders, files and pictures there – then mess them up!)

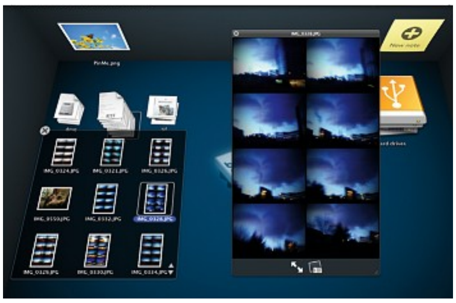
02 Fire up BumpTop

Launch *BumpTop*. You'll see a 3D view, including all of the files on your Desktop, which will start life in a huge Pile that will collapse in a messy heap. Elsewhere, you'll see any attached volumes, a **New note** sticky note, and a **PinMe.png** image. Time to get tidying…

03 Sort your files

You can drag and drop to sort your files in *BumpTop*, but if you're feeling lazy (sorry, we mean super-efficient), ctrl-click *BumpTop's* floor and select **Pile by Type**. As if by magic, your documents will be sorted into neat Piles, based on type (JPEG, MP3, folders and so on).


New note
bump top

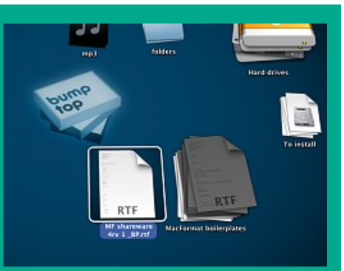


04 Create a visual hierarchy

BumpTop can make items more visually prominent. Drag **PinMe.png** to the back wall and it'll be pinned. Select your volumes Pile and click **Grow** a few times to make the icons more dominant. Also, selected Piles can be renamed – simply press ↩ and type a name.

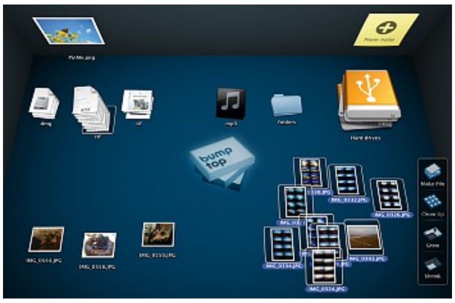
05 Explore Piles

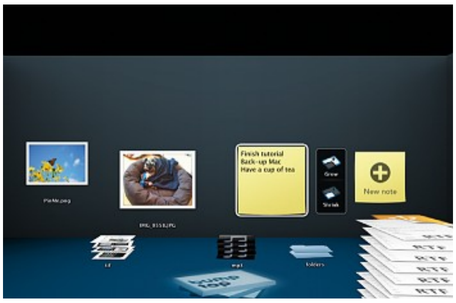
Getting at items within a Pile is simple. Double-click a Pile to expand it into **Grid** view. From here, you can double-click a file to open it, drag it out of the Pile, or hit [Space] to preview it in **Quick Look**. Should you want to separate a Pile for good, select **Break Pile** from its menu.

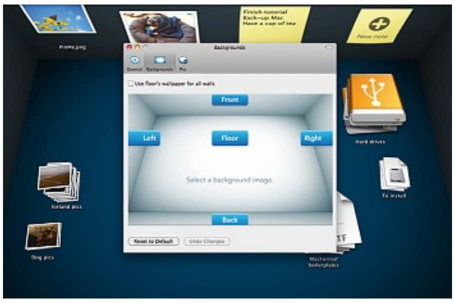

mp3
folders
Hard drives
bump top
To install
RTF
RTF
MacFormat boilerplates

»QUICK TIP

With *BumpTop Pro* you can flip through a Pile by using your mouse's scrollwheel or a two-finger scroll up/down Multi-Touch gesture. The *Pro* version lets you grow/shrink files with a pinch and create/break Piles by three-finger up/down swipes.


New note
bump top


Finish tutorial
Back-up Mac
Have a cup of tea
New note
bump top


Backgrounds
Front
Left
Floor
Right
Back
Select a background image.
Reset to Default
Undo Changes

06 Create arbitrary Piles

Piles can be created from any selection of items. Although you can ⇧- or ⌘-click items then select **Make Pile** from the menu, there's a simpler, more intuitive method: drag your items together, click-drag to draw a path around them with *BumpTop's* **Lasso** then select **Make Pile**.

07 Explore and make notes

Click **New note** and you can type a sticky note to pin to any of the walls. (The *Pro* version of *BumpTop* allows unlimited notes to be made.) You can also click on any wall to change viewpoint. Click the floor and the view becomes more 2D, like a standard Desktop.

08 Edit the backgrounds

Select **Preferences** from *BumpTop's* menu item and access the **Backgrounds** section. Choose background images for the floor and each of the four *BumpTop* walls – click one of the five options and choose an image in the dialog. Click **Reset to Default** to revert. ●

>> OS X SURVIVAL GUIDE

MacBook Air audio fix

Christopher Brennan solves the sound problem

>> PROFILE

Name: Christopher Brennan
Occupation: Freelance journalist, Mac consultant and house-husband
System(s): Mac Pro (2x2.8GHz), MacBook (2GHz), 20-inch iMac (2GHz), 12-inch PowerBook G4 (1GHz)

There are lots of myths surrounding Apple. Some say it's a secret society run at the whim and whimsy of Steve Jobs. Others say it's a company dedicated to destroying and reinventing itself over and over again. To those of you who know their Apple history, either of these myths probably rings true.

Perhaps one of the most enduring myths, however, is that the products it makes are somehow infallible or indestructible. Over the years there's no doubt that Apple has created a reputation for well-built and high-quality products. As with all things, no matter how strict your quality control, mistakes can happen. iBooks with dodgy logic boards and batteries that might – if you're very unlucky – burst into flames are just two problems that in recent years have troubled Apple.

Finding a common problem is a difficult thing to prove. Recently, however, I've been asked the same question a few times by owners of the MacBook Air. It's a simple but annoying glitch where the audio is rendered mute – no sound at all from the speakers or headphones.

There are two potential fixes to this issue and, as you might have expected, one is relatively simple while the other is relatively complex. Should your MacBook Air not be providing audio then your first port of call should be Mac OS X.

If all audio from your MacBook Air has ceased then remember the obvious. Go to Apple Menu > System Preferences > Sound and check that the audio isn't muted. Close any applications that might have control over the audio, such as *GarageBand*, and restart to see if that helps.

> *"Perhaps one of the most enduring myths, however, is that the products Apple makes are somehow infallible or indestructible..."*

If it's just one application that's not playing audio it's likely to be that software rather than a system-wide problem. For instance, some people have reported that an out-of-date *Flash* player can cause *Safari* to lose audio playback. Only on *Flash* files, naturally, but to get around that you just simply have to update *Flash*.

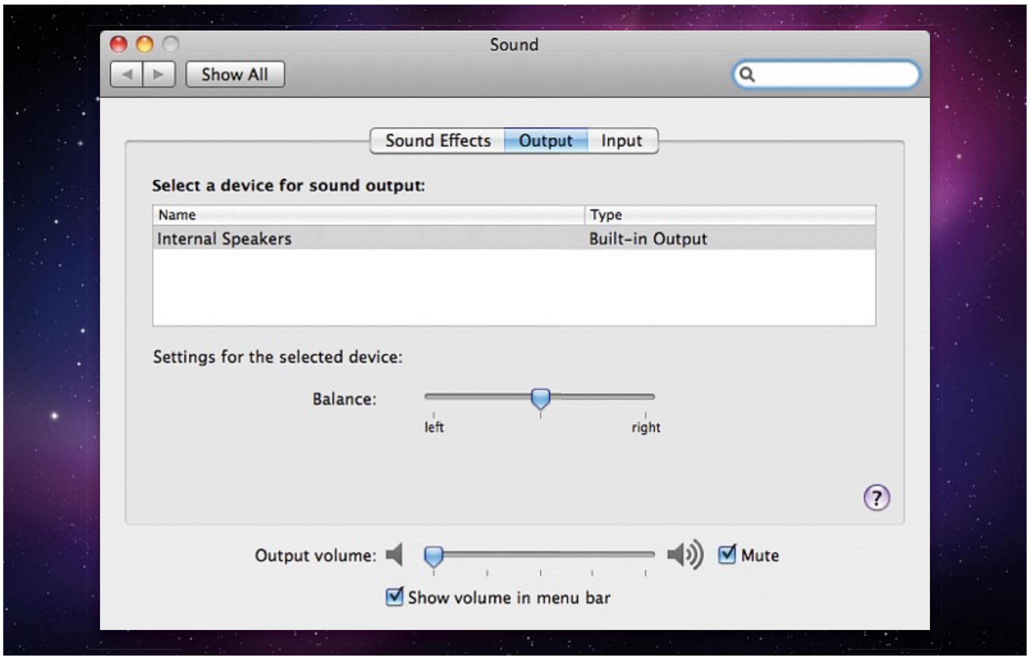
If all your system sounds are gone then you can try deleting the BezelServices.plit file. You'll find it in: ~Library/Preferences/com.apple.BezelServices.plist. Simply drag the file to Trash, empty it and restart your machine.

If this works for you then you're in luck, as the next step involves tearing your MacBook Air apart and replacing a cable. If your MacBook Air is in its warranty period or you've taken AppleCare then this should be covered. If your Air isn't covered then you may still be able to get Apple to replace the audio board flex cable (part number 922-8380) by citing the Sale of Goods Act.

If Apple refuses to help, then you can take the MacBook Air apart and replace the cable yourself. Do a search for the part number mentioned above and you'll find them available online for about £30. Taking apart a Mac isn't as daunting as it may sound; just remember the golden rules. Prepare a nice large, flat space and set aside plenty of time. Go slowly and methodically and make sure you have the right tools.

The most disappointing aspect of studying Apple is the realisation that it's just another company, and mistakes and manufacturing faults are inevitable. That's not to say this audio problem is either of those things, but do a search for lost audio on the Apple support forums and you'll find a few identical complaints.

Apple's products can and do go wrong. In this case, if you're lucky you'll just need to delete a .plist file, if not, prepare to crack open your Mac. ●



Select a device for sound output:

Name	Type
Internal Speakers	Built-in Output

Settings for the selected device:

Balance: left – right

Output volume: ☑ Mute

☑ Show volume in menu bar

If your audio has disappeared altogether try the obvious first, rather than cracking open your Mac and replacing cables.

MAMA FESTIVALS & CLASSIC ROCK
PRESENT

HIGH VOLTAGE
FESTIVAL

SATURDAY 24 JULY 2010

ZZ TOP

heaven & hell

RONNIE JAMES DIO · TONY IOMMI · GEEZER BUTLER · VINNY APPICE

SUNDAY 25 JULY 2010

ELP

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THE ANSWER
JOE BONAMASSA
GARY MOORE
UFO • THE UNION
THE QUIREBOYS
BACHMAN & TURNER

METAL HAMMER STAGE

Black Label Society
Venom
CLUTCH
down

PROG STAGE

TRANSATLANTIC
marillion
ASIA
MAGNUM
STEVE HACKETT
DWEEZIL ZAPPA
Argent
MARTIN TURNER'S WISHBONE ASH
(PERFORMING ARGUS)
URIAH HEEP
(PERFORMING DEMONS & WIZARDS)
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Custom built *by* rock fans, *for* rock fans

Create video tutorials

Make full use of QuickTime X and iMovie to create advanced video tutorials

>> KEY INFO

DIFFICULTY: Intermediate

TIME NEEDED: 30 minutes

WHAT YOU'LL NEED: Snow Leopard (Mac OS X 10.6), iMovie '09 version 8.0.5 or later, a good understanding of iMovie's interface

When Apple updated their operating system to Snow Leopard (version 10.6), they tweaked, modified and improved many underlying technologies. One such improvement happened to the venerable *QuickTime* application. This new version is a complete redesign of the program, much like *iMovie '08* was compared to what came before it. And just like *iMovie 6* remained on your hard drive in case the latest iMovie was too jarring for existing users, *QuickTime 7* is still available if you prefer it (it's stored in the /Applications/Utilities folder).

But rather than looking back at the past, we'll take a look at *QuickTime X* as this is the direction Apple is taking. It's true that a lot of features have been removed compared to what you could do with *QuickTime 7*. We hope they'll be re-instated just like most tools available in *iMovie 6* made a comeback in *iMovie '09*.

But what's interesting about *QuickTime X* is what you can do with it now. For one thing, it's much easier to trim your clips. The interface is very reminiscent of the iPhone's video-editing capabilities with a thumbnail strip and two handles on either side, which you can use to cut out unwanted sections.

You can also record video from your Mac's built-in iSight or a connected camcorder, then use Share to upload your work to YouTube or your MobileMe Gallery.

> *"Record video from your Mac's built-in iSight or a connected camcorder, then upload to YouTube"*

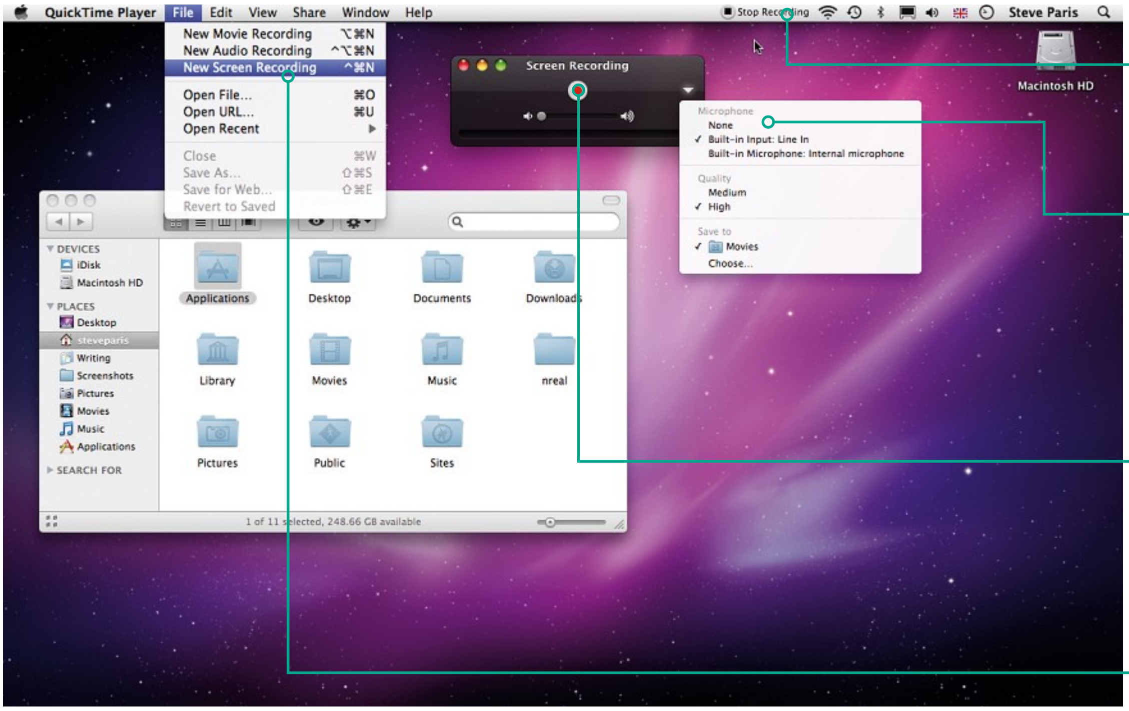
But there's another feature that could be of great use to anyone attempting to help confused users remotely: you can now record your screen and upload your answer in a manner that is much easier for people to understand – after all, a picture (or video in this case) is worth a thousand words.

Many programs already exist that let you do this – *Snapz Pro* and *ScreenFlow*, for instance – but you have to pay for them, and although they offer more features than *QuickTime X* does, the big advantage of the latter is that it's free and bundled with Snow Leopard, so you can get started right away.

We'll show you how to record any action performed on your Desktop, import it into *iMovie*, crop, and use the Ken Burns tool to focus viewer's attention on what's important.

Steve Paris

>> QUICK LOOK Use QuickTime X to record your screen


QuickTime Player File Edit View Share Window Help
Stop Recording
Steve Paris
New Movie Recording ⌥⌘N
New Audio Recording ^⌥⌘N
New Screen Recording ^⌘N
Open File... ⌘O
Open URL... ⌘U
Open Recent
Close ⌘W
Save As... ⇧⌘S
Save for Web... ⇧⌘E
Revert to Saved
Screen Recording
Microphone
None
✓ Built-in Input: Line In
Built-in Microphone: Internal microphone
Quality
Medium
✓ High
Save to
✓ Movies
Choose...
Macintosh HD
DEVICES
iDisk
Macintosh HD
PLACES
Desktop
steveparis
Writing
Screenshots
Pictures
Movies
Music
Applications
SEARCH FOR
Applications
Desktop
Documents
Downloads
Library
Movies
Music
nreal
Pictures
Public
Sites
1 of 11 selected, 248.66 GB available

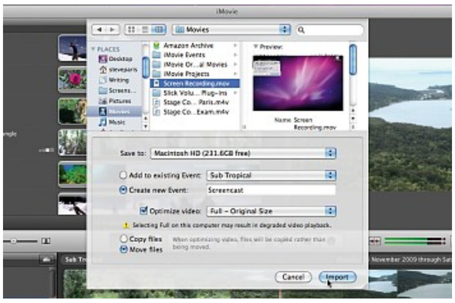
That's a wrap
When you wish to finish your recording, click on this menu (or press ⌘ + ctrl + esc).

Audio options
Click here to choose to record your voice and where to save your file.

Action
When you're ready to start recording, click on this red button.

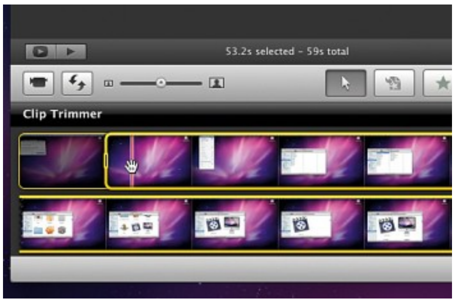
Initiate recording
To start, go to File > New Screen Recording (or press ⌘ + ctrl + N).

HOW TO Make full use of your screen capture in iMovie


Save to: Macintosh HD (231.6GB free)
Add to existing Event: Sub Tropical
Create new Event: Screencast
Optimize video: Full – Original Size
Selecting Full on this computer may result in degraded video playback.
Copy files
Move files
Cancel
Import

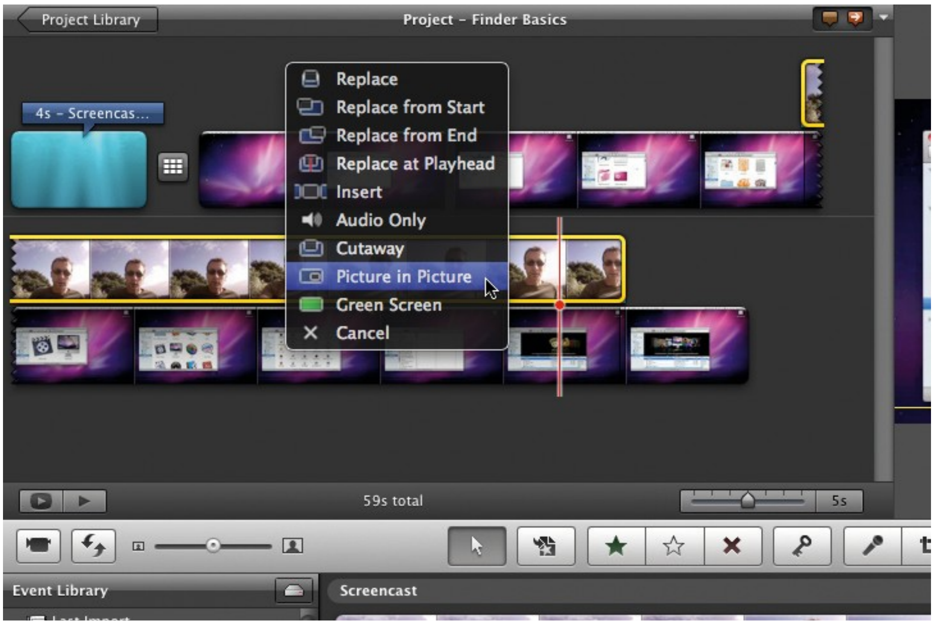
01 Importing capture

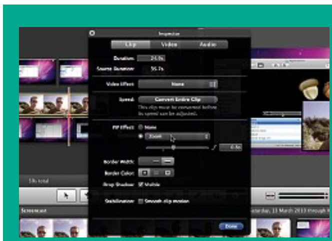
With your Desktop recorded, it's time to edit your footage. *iMovie* can do a better job than *QuickTime*, so launch that app and go to File > Import > Movies. Locate the file you just made (in your **Movies** folder by default), choose which Event to save it into and click **Import**.


53.2s selected – 59s total
Clip Trimmer

02 Fine-tuning footage

Your captured footage will appear in your chosen Event and you can select any section you wish to use, just like any other clip in *iMovie*. You can even use the **Clip Trimmer** function once your clip's in a project, to fine-tune your edit.


Project Library
Project – Finder Basics
4s – Screencas...
Replace
Replace from Start
Replace from End
Replace at Playhead
Insert
Audio Only
Cutaway
Picture in Picture
Green Screen
Cancel
59s total
5s
Event Library
Screencast

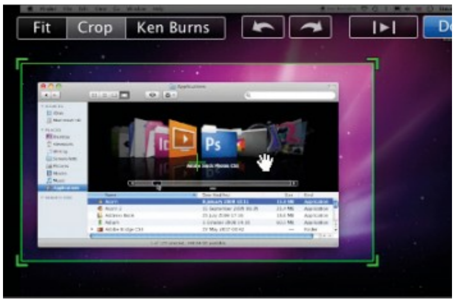


QUICK TIP

There are options available for your picture-in-picture clip: select it in your project and open the **Inspector's Clip** tab (hit I). Choose a transition effect or add a border and shadow to your clip to make it stand out from the background.

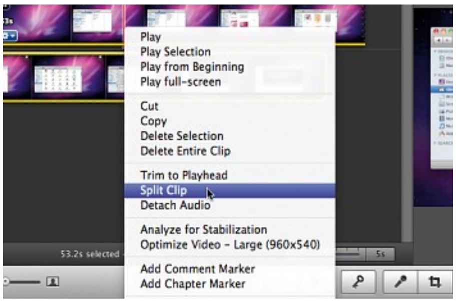
06 Picture-in-picture

If you chose not to have any audio when recording your desktop, you can add it in *iMovie*. Even better, record yourself using your iSight camera (as shown on page 46) and add it as a picture-in picture effect. To achieve this, go to iMovie > Preferences and make sure the **Show Advanced Tools** box is ticked in the **General** tab. Next, drag the footage from your iSight camera onto your other clip in your **Project**. Release the mouse and choose **Picture in Picture** from the menu. By default, it appears at the top-right of the screen but you can drag it from the main **Preview** section to any location that works best for you. You can also drag the corner handles to resize your clip, as you wish.


Fit
Crop
Ken Burns

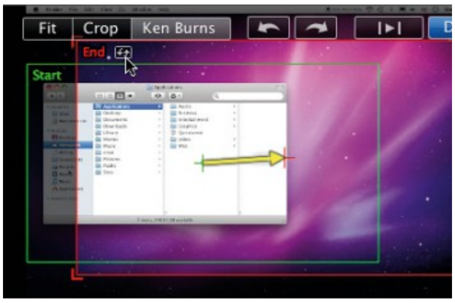
03 Zoom in

QuickTime X captures your entire screen. However, you can use *iMovie's* **Crop** function (select the clip and hit C) to zoom into a specific area (this is done in the program's main **Preview** section). Click the button to the left of **Done** to play your alteration.


Play
Play Selection
Play from Beginning
Play full-screen
Cut
Copy
Delete Selection
Delete Entire Clip
Trim to Playhead
Split Clip
Detach Audio
Analyze for Stabilization
Optimize Video – Large (960x540)
Add Comment Marker
Add Chapter Marker
53.2s selected

04 Split up

If you want to zoom into the section you focused on in Step 3, move the cursor to just before the segment, ctrl-click at that location and choose **Split Clip**. Select the first part of your clip, hit C and select **Ken Burns** from the main **Preview** section's options.


Fit
Crop
Ken Burns
End
Start

05 Reverse direction

By default, *iMovie* assumes the cropping you did in Step 3 should be the starting frame. Here, we want to finish at that position. Move the red 'end' rectangle to your preferred starting position. Then, click the two arrows at the top-left of that box to reverse the direction. ●

Make Safari better

Introducing add-ons and tips to enhance Apple's web browser

>> ON THE DISC Find most of the featured apps on the disc.

>> KEY INFO

DIFFICULTY: Intermediate

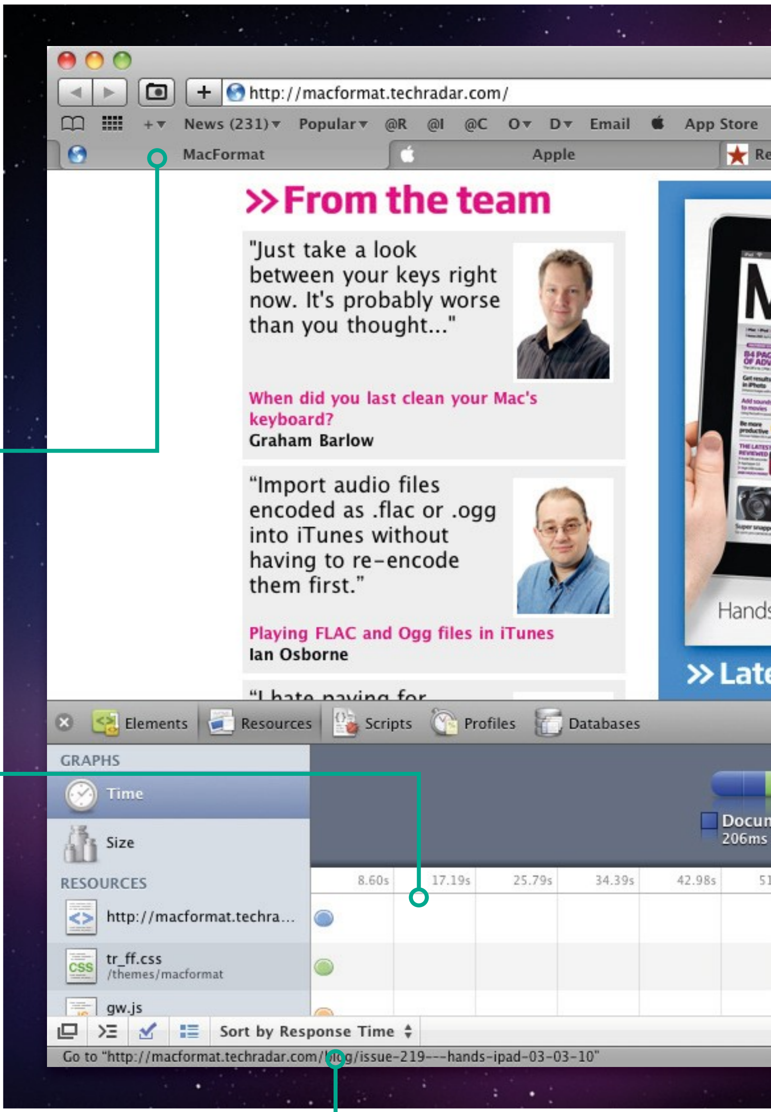
TIME NEEDED: 30 minutes

WHAT YOU'LL NEED: Mac OS X 10.5 or later, Safari 4 various third-party apps

There are many things that make *Safari* a great web browser. Its underlying core, WebKit, is advanced, fast and regularly updated, and the browser's interface is clean, simple and usable. However, if you've used *Safari's* rivals, you may pine for their extensibility and wish Apple's browser had more features.

In this tutorial, we'll showcase built-in options and third-party extensions for *Safari* that ensure it can take on the competition. We'll also show you a great related app that can enhance your browsing experience.

Craig Grannell


http://macformat.techradar.com/
News (231)
Popular
@R
@I
@C
O
D
Email
App Store
MacFormat
Apple
Elements
Resources
Scripts
Profiles
Databases
GRAPHS
Time
Size
RESOURCES
http://macformat.techra...
tr_ff.css
/themes/macformat
gw.js
8.60s
17.19s
25.79s
34.39s
42.98s
Docum
206ms
Sort by Response Time
Hands
>> Late

>> From the team

"Just take a look between your keys right now. It's probably worse than you thought..."

When did you last clean your Mac's keyboard?
Graham Barlow

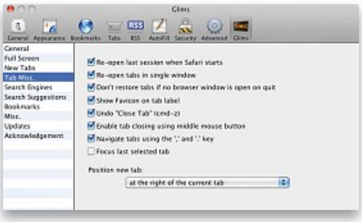
"Import audio files encoded as .flac or .ogg into iTunes without having to re-encode them first."

Playing FLAC and Ogg files in iTunes
Ian Osborne

Go to "http://macformat.techradar.com/blog/issue-219---hands-ipad-03-03-10"

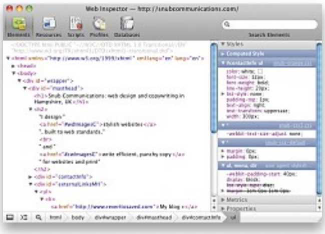
Better tabs

Safari's tab management is simplistic: a warning on closing a window with tabs and basic disaster recovery. The free *Glims* (machangout.com), configured via *Safari's* preferences, has tab options under its Tab Misc section. You can toggle session restore, place website favicons over tab close buttons, activate undo for tab closing, and set tab navigation shortcuts. There's also a Position new tab menu, so you can set new tabs to appear beside the active one rather than to the right of all open tabs.


Glims
General
Appearance
Bookmarks
Tabs
RSS
AutoFill
Security
Advanced
Glims
General
Full Screen
New Tabs
Tab Misc.
Search Engines
Search Suggestions
Bookmarks
Misc.
Updates
Acknowledgement

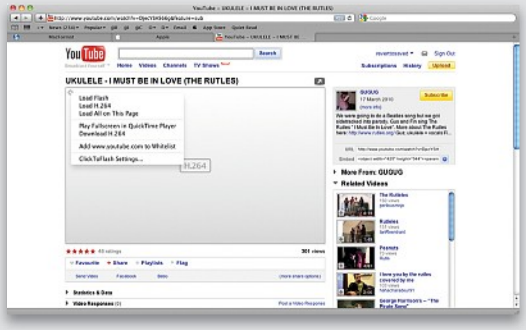
☑ Re-open last session when Safari starts
☑ Re-open tabs in single window
☑ Don't restore tabs if no browser window is open on quit
☑ Show Favicon on tab label
☑ Undo "Close Tab" (cmd-z)
☑ Enable tab closing using middle mouse button
☑ Navigate tabs using the '.' and ',' key
☐ Focus last selected tab

Position new tab: at the right of the current tab


Web Inspector — http://snubcommunications.com/
Elements
Resources
Scripts
Profiles
Databases
Search Elements
Styles
Computed Style
Metrics
Properties

Developer tools

Web designers often use *Firefox*, due to the *Firebug* extension. However, *Safari* also has great developer tools, activated by checking the Show Develop menu found in the Advanced section of its preferences. The menu provides a great web inspector for exploring code, load times and resources such as scripts and images.


YouTube - UKULELE - I MUST BE IN LOVE (THE RUTLES)
You Tube
Home
Videos
Channels
TV Shows
UKULELE - I MUST BE IN LOVE (THE RUTLES)
Load Flash
Load H.264
Load All on This Page
Play Fullscreen in QuickTime Player
Download H.264
Add www.youtube.com to Whitelist
ClickToFlash Settings...
H.264
Favourite
Share
Playlists
Flag

Disable Flash

Flash on the Mac is often resource-hungry and unstable. This can cause *Safari* to crash, or your Mac to become slow. The *ClickToFlash* (**rentzsch.github.com/clicktoflash/**) add-on blocks *Flash* but enables you to load *Flash* components with a click, whitelist sites where you want *Flash* content to automatically run, and load higher-quality H.264 videos in place of *Flash* video on YouTube.

The status bar

Perhaps due to Apple's penchant for minimalism, *Safari's* default set-up hides as many interface components as possible. One of the ones worth turning on is the status bar. View > Show Status Bar (⌘+/) adds the bar to the foot of each browser window. Hover over a link and the status bar displays the destination; click a link and server contact info/download progress is shown.

Perfect printing

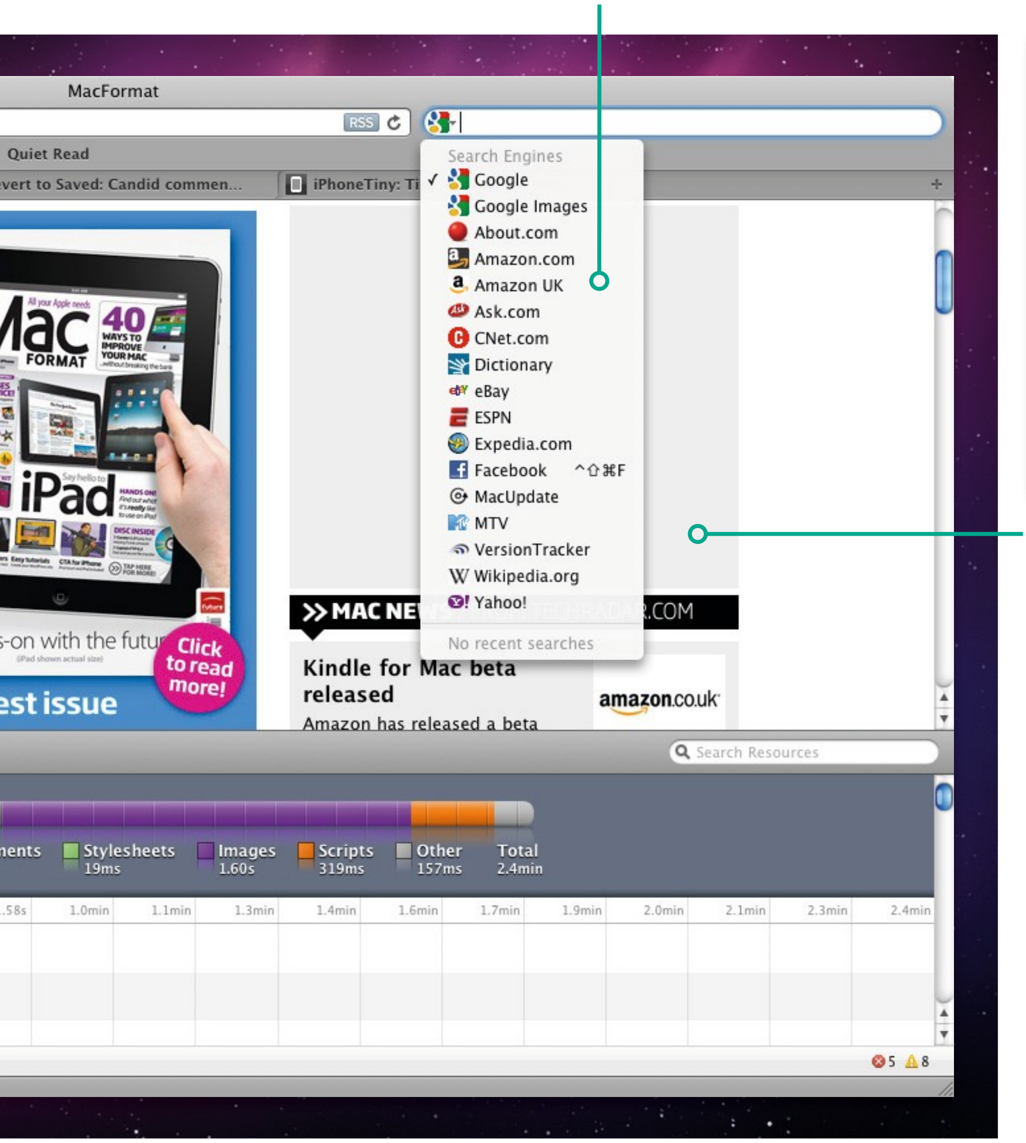
Printing from websites is hit-and-miss, and you rarely get something that looks like the original site. *Web Snapper* ($15, **tastyapps.com**) enables you to capture a site as it appears in *Safari* and save the results, including PDF (with active links).

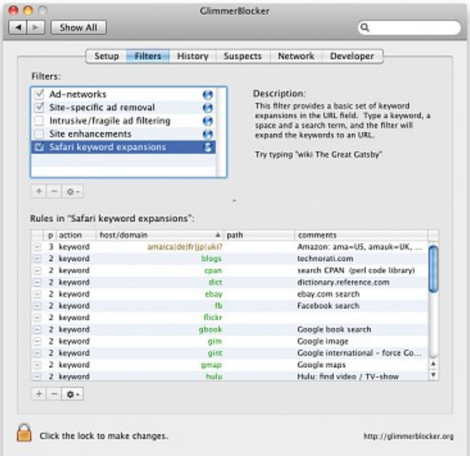
More search engines

To use something other than Google in *Safari's* search field, install *Glims*. In the General preferences, check Add Search Engines to Safari 'Search Field', restart the browser and then check out the Search Engines section in *Glims'* preferences. Some engines are installed by default, and can be selected from *Safari's* search field.

Keyword expansions

Most browsers enable you to perform a website search by typing a user-definable shortcut and search term in the address bar (such as 'am macformat' to search Amazon for *MacFormat*), *Safari* won't do this by default, but *GlimmerBlocker* provides some expansions – go to **Filters** in its preferences.


MacFormat
RSS
Quiet Read
vert to Saved: Candid commen...
iPhoneTiny: Ti
Search Engines
✓ Google
Google Images
About.com
Amazon.com
Amazon UK
Ask.com
CNet.com
Dictionary
eBay
ESPN
Expedia.com
Facebook ^⇧⌘F
MacUpdate
MTV
VersionTracker
Wikipedia.org
Yahoo!
No recent searches
MAC NE
.COM
Kindle for Mac beta released
Amazon has released a beta
amazon.co.uk
-on with the futu
est issue
Click to read more!
Search Resources
ents
Stylesheets 19ms
Images 1.60s
Scripts 319ms
Other 157ms
Total 2.4min
.58s
1.0min
1.1min
1.3min
1.4min
1.6min
1.7min
1.9min
2.0min
2.1min
2.3min
2.4min
5
8


GlimmerBlocker
Show All
Setup
Filters
History
Suspects
Network
Developer
Click the lock to make changes.
http://glimmerblocker.org

Filters:

- ☑ Ad-networks
- ☑ Site-specific ad removal
- ☐ Intrusive/fragile ad filtering
- ☐ Site enhancements
- ☑ Safari keyword expansions

Description:
This filter provides a basic set of keyword expansions in the URL field. Type a keyword, a space and a search term, and the filter will expand the keywords to an URL.

Try typing "wiki The Great Gatsby"

Rules in "Safari keyword expansions":

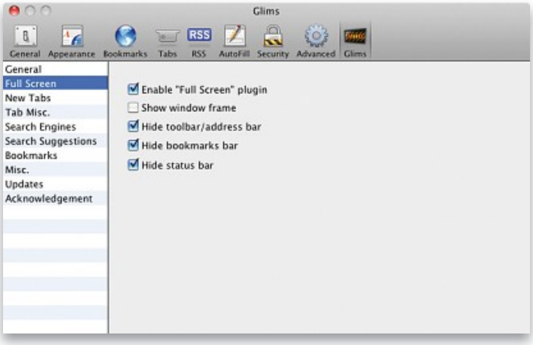
p	action	host/domain	path	comments
3	keyword	ama(ca|de|fr|jp|uk)?		Amazon: ama=US, amauk=UK, ...
2	keyword	blogs		technorati.com
2	keyword	cpan		search CPAN (perl code library)
2	keyword	dict		dictionary.reference.com
2	keyword	ebay		ebay.com search
2	keyword	fb		Facebook search
2	keyword	flickr		
2	keyword	gbook		Google book search
2	keyword	gim		Google image
2	keyword	gint		Google international – force Go...
2	keyword	gmap		Google maps
2	keyword	hulu		Hulu: find video / TV-show

Ad-blocking

Safari's Block Pop-Up Windows (⇧+⌘+K) option isn't good enough for the modern ad-infested internet. Various third-party ad-blockers exist, but they're often implemented as hacks. *GlimmerBlocker* (glimmerblocker.org) is different – it works as an http proxy, meaning browser stability isn't affected. Usefully, it also acts on other WebKit browsers (such as Chrome and NetNewsWire) and is hugely configurable via System Preferences, although chances are the defaults will work fine for you.

Go full screen

The green 'zoom' button expands a window to fit its content. If you want a 'full-screen' *Safari*, go to the General section of *Glims'* preferences, check Add 'Max Window Size' to Safari menu and in Full Screen, check Enable 'Full Screen' plugin. Restart *Safari*. Safari > Max Window Size will expand the window. Safari > Full Screen will make the browser full-screen. ctrl+⌘+F returns it back.


Glims
General
Appearance
Bookmarks
Tabs
RSS
AutoFill
Security
Advanced
Glims
General
Full Screen
New Tabs
Tab Misc.
Search Engines
Search Suggestions
Bookmarks
Misc.
Updates
Acknowledgement

- ☑ Enable "Full Screen" plugin
- ☐ Show window frame
- ☑ Hide toolbar/address bar
- ☑ Hide bookmarks bar
- ☑ Hide status bar

KEYBOARD SHORTCUTS

Timesaving Safari shortcuts

⌘+N	New Tab
⇧+⌘+A	AutoFill Form
⌥+⌘+F	Google Search
⌘+F	Find
⌘+G	Find Next
⌘+D	Add Bookmark

Developer tools

⌥+⌘+I	Show Web Inspector
⌥+⌘+C	Show Error Console

Optional Glims shortcuts

⇧+⌘+M	Max Window Size
⌘+Z	Undo Close Tab
ctrl+⌘+F	Full Screen
,	Previous Tab
.	Next Tab

The top 25 Terminal tips

Get that extra bit of mileage from your Mac using OS X's Terminal facility

ON THE DISC

On this month's cover disc, there's a document entitled **Terminal.txt**. This contains all the commands offered in this tutorial, so you can easily copy and paste them straight into *Terminal*.

Terminal (in Applications/Utilities) gives you direct access to the UNIX system that underpins OS X. By typing specific commands into your *Terminal* window, you can make changes, open settings or access features that aren't available by any other means.

After typing one of the commands offered in this tutorial, press ⏎ to activate it, and anything offered in quotes is typed without the quote marks themselves. Commands split over two or more lines here should be typed in their entirety – you don't press ⏎ halfway through. And bear in mind that some commands are case-sensitive, so be true to what's here.

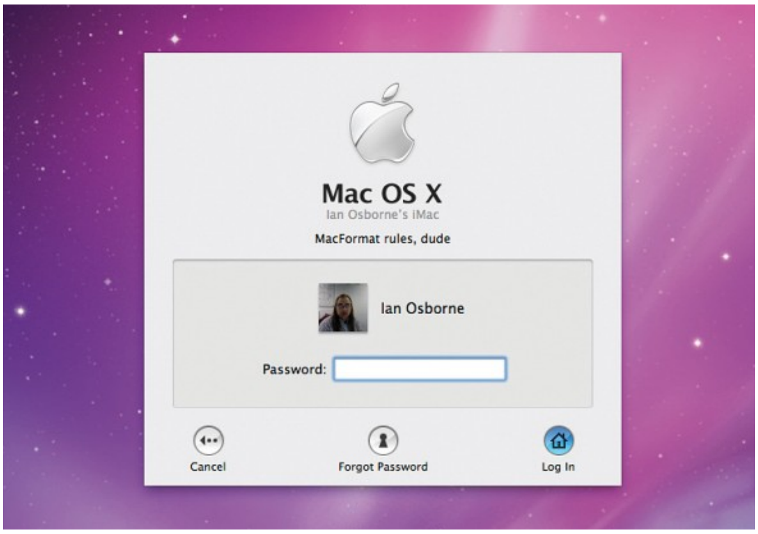
One final word of warning: all the tips in this feature have been thoroughly tested, but experimenting with the *Terminal* is not a task to be undertaken lightly. Do not try to modify or adapt these hacks unless you really know what you're doing.

01. i... Robot

Your Mac can talk to you. Using a robotic voice reminiscent of a 50s sci-fi flick, it can ask after your health, tell you a joke or say anything else you care to type. It's a simple trick. Just open the *Terminal* application (found in Applications > Utilities), enter:

```
say MacFormat
```

...And the *Terminal* robot utters the name of this magazine. Obviously it doesn't have to be *MacFormat* – type anything you like. Give it a go, it's fun.



Badge your login screen with a self-congratulatory message using a Terminal command.

02. Back up at will

By default, *Time Machine* backups take place every hour, but you can change this through *Terminal*. To make it back up every half an hour instead, simply type:

```
sudo defaults write /System/Library/LaunchDaemons/com.apple.backupd-auto StartInterval -int 1800
```

The '1800' at the end of this command is half an hour, expressed in seconds. You can change this figure to suit: for example, to back up once an hour again, replace it with '3600', for two-hour backups, '7200'. Always remember to be especially careful with commands that begin 'sudo'. These are system-level commands that can cause huge problems if misused, which is why you're asked for your administrator's password the first time you try one.

03. Logon greetings

Another sudo – and therefore dangerous – command that enables you to add a message to the login screen. In *Terminal*, type:

```
sudo defaults write /Library/Preferences/com.apple.loginwindow LoginwindowText "Your Message"
```

Replace 'Your Message' with whatever it is you want to display, of course, but be careful with your punctuation. Some characters (exclamation marks, for instance) stop the command from working. To remove the message, type:

04 Play games in the Terminal

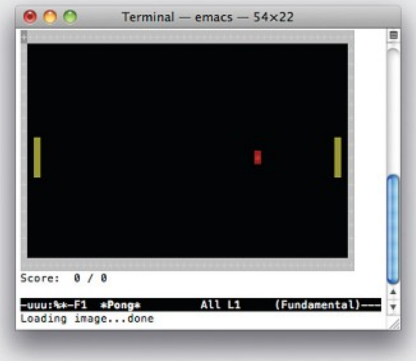
As you may know, OS X is UNIX-based. *Emacs*, a text editor, forms part of the UNIX system, and it contains some Easter egg games, including the ever-popular *Tetris*, *Pong* and *Snake*. First you must find your Emacs version number. In the *Terminal*, type

```
cd /usr/share/emacs/
```

And press ⏎. Now type 'ls' and press ⏎ again. You're given your Emacs version number (1.21, for instance). Now, write it down. Then enter the following:

```
ls /usr/share/emacs/[VERSION]/lisp/play
```

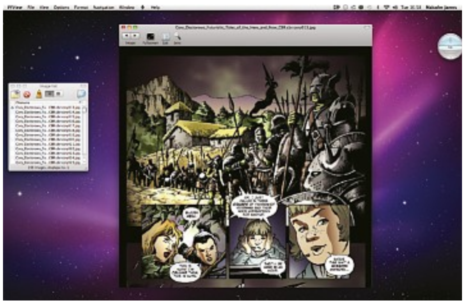
Replace [VERSION] with the number obtained earlier. You get a directory of all the available games. Make a note, or take a screenshot. Now switch to *Emacs* through *Terminal* by simply typing 'emacs'. To access the games, press esc then X and type the name of the game you wish to play, before pressing ⏎. You can switch to the next game by pressing esc then X and the name of the next game you wish to try. Have fun!

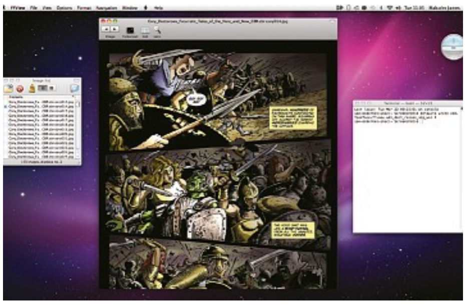


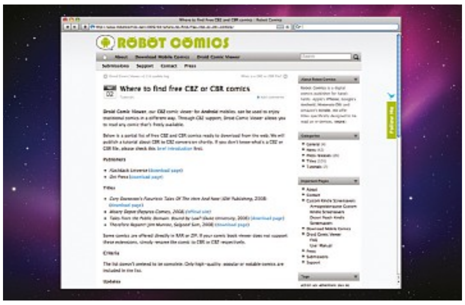
```
Score:  0 / 0
-uuu:%*-F1  *Pong*        All L1     (Fundamental)---
Loading image...done
```

A variety of simple games are accessible through the Terminal.

05 Fix window sizes in FFView







01 Resize problem

FFView (**www.feedface.com/projects/ffview.html**) is a great sequential image viewer, but its **Pagewidth Mode** resizes its window every time you turn to the next image. This is very annoying if you want to set – and stick to – your own window size. What to do?

02 Resize resolution

Terminal solves the problem. Type:

```
defaults write com.feedface.ffview udn_dont_resize_img_win 1
```

The window now remains a constant size. To reverse this, enter the code again, replacing the '1' at the end with '0'. Now restart the app.

03 Want comics?

There's a wealth of downloadable free comics available on the web. For example, mobile comic publisher Robot Comics offers a list of high-quality, free-to-download material suitable for reading on your Mac with *FFView*. Check it out at **http://tinyurl.com/dk8ell**.

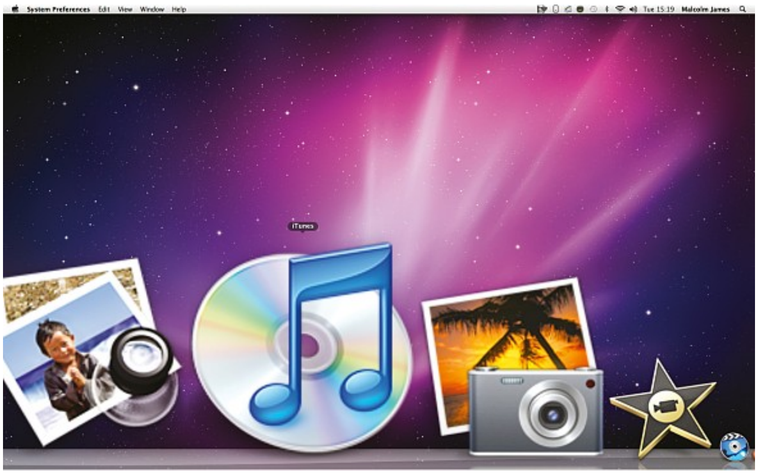
```
sudo defaults write /Library/Preferences/com.apple.loginwindow LoginwindowText ""
```

06. Get a massive Dock

If you want giant-sized magnified Dock icons, enable **Magnification** in System Preferences > Dock, and in *Terminal* type:

```
defaults write com.apple.dock largesize -int 512; killall Dock
```

This increases their maximum size to 512x512 pixels. You can substitute another figure if you wish, but don't go any higher than 512. To switch this effect off, just return to the Dock's preferences and move the **Magnification** slider back.



With the right Terminal command, you can increase the Dock icon size to 512x512 pixels.

07. Hybrid Dock folders

For a different version of a Dock folder or Stack's **List** option, type:

```
defaults write com.apple.dock use-new-list-stack -boolean YES; killall Dock
```

This gives you an interesting hybrid of the **List** and **Grid** viewing options. Your **List** view icons are bigger, and if there are more items than fits the window, you can scroll through them in the same way as you would in **Grid** view. Also like **Grid** view, clicking on a folder now opens it within the Stack. If you find you don't like these changes, type the command again, replacing 'YES' with 'NO'.

08. Inspect the web

Safari's **Web Inspector** offers a great deal of detail about web pages, and it's invaluable for serious web developers. You can activate it using *Safari*'s **Debug Menu** outlined elsewhere in this tutorial, but if you only want the **Web Inspector**, type:

```
defaults write com.apple.Safari WebKitDeveloperExtras -bool true
```

After restarting *Safari*, you can now access the **Web Inspector** by right-clicking on a web page and selecting it from the contextual menu. As you might guess, you can deactivate this feature by repeating the command, but replacing 'true' with 'false' at the end and restarting *Safari* once more.

09. Debug iCal

Like many OS X applications, *iCal* has a **Debug Mode** that can be activated through *Terminal*. Type:

```
defaults write com.apple.iCal IncludeDebugMenu YES
```

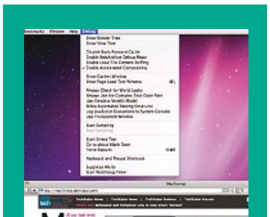
A new menu bar pull-down titled **Debug** appears. You can hide it again by repeating the code but replacing 'YES' with 'NO'; note that *iCal* must be restarted for changes to take effect.

10. Debug Address Book

Address Book also has a hidden debug menu. To enable it, type:

```
defaults write com.apple.addressbook ABShowDebugMenu -bool YES
```

The **Debug** pull-down appears in the menu bar. To disable it again, repeat the command and replace 'YES' with 'NO' at the end. The application must be closed and restarted for these commands to take effect.



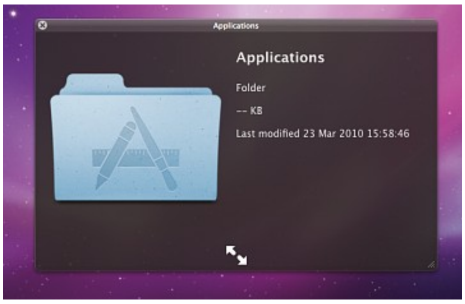
11 QUICK TIP

To enable a debug menu in *Safari 4*, type;

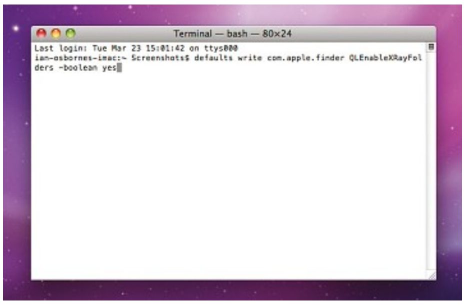
```
defaults write com.apple.safari IncludeInternalDebugMenu 1
```

Quit *Safari* and restart it for the hack to take effect, giving you an extra menu bar pull-down labelled **Debug**. To get rid of it again, repeat the command, replacing the '1' at the end with '0'. A restart is again required.

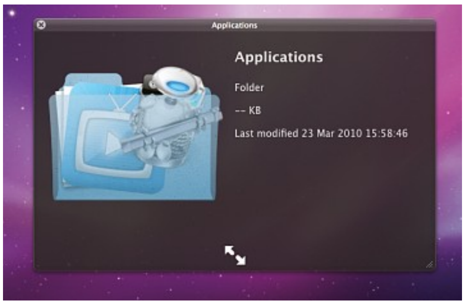
12 Enable x-ray folders in Quick Look



Applications
Folder
-- KB
Last modified 23 Mar 2010 15:58:46



```
Last login: Tue Mar 23 15:01:42 on ttys000
ian-osbornes-imac:~ Screenshots$ defaults write com.apple.finder QLEnableXRayFol
ders -boolean yes
```



Applications
Folder
-- KB
Last modified 23 Mar 2010 15:58:46

01 Folders can look dreary

If you highlight a file in *Finder* and press [Space] or click on the eye-like icon in the toolbar, you activate **Quick Look**, giving you information about the item in question and possibly a preview of the file. Folders look pretty dull in **Quick Look**, as you can see here.

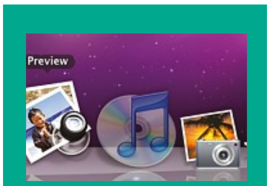
02 See through the veil

Fortunately, there is a way to spice up your folder viewing experience, and *Terminal* is the source: to make **Quick Look** give you an x-ray image of a folder, simply type:

```
defaults write com.apple.finder QLEnableXRayFolders -boolean YES
```

03 X-ray vision is yours

Quick Look now offers an x-ray view of a folder, with an icon that shows you what's inside it. To disable this feature once more, type the code offered in step two again, replacing 'YES' with 'NO'. **Quick Look** folders are returned to their former state, with no x-ray view.



13 QUICK TIP

To turn the Dock icons translucent for applications that are open but hidden, type;

```
defaults write com.apple.Dock showhidden -bool YES; killall Dock
```

Repeat the command, replacing 'YES' with 'NO' to disable this feature once more. Icons for applications that are already hidden when you activate this feature will not appear translucent unless you **Show** and then **Hide** them again.

14. Recently used

This somewhat intimidating code introduces a new Stack into your Dock, showing a list of your recently used applications:

```
defaults write com.apple.dock persistent-others -array-add '{ "tile-data" = { "list-type" = 1; }; "tile-type" = "recents-tile"; }'; killall Dock
```

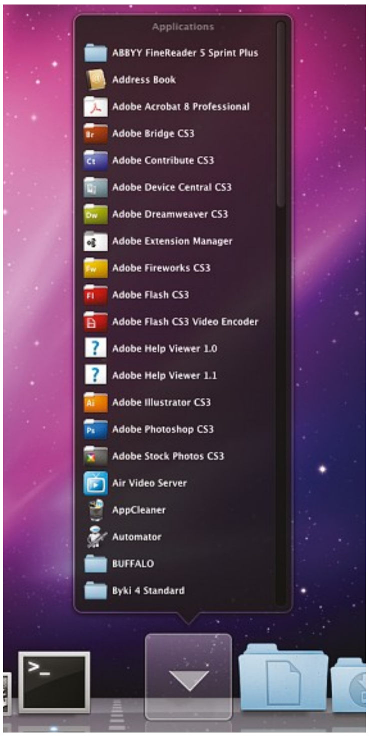
Type it carefully. It's a really useful feature. When the new Stack is in your Dock, you can right-click on it and change it from showing **Recent Applications** to **Recent Documents**, **Recent Servers**, **Favourite Volumes** or **Favourite Items**. It can be displayed in **Fan**, **Grid** or **List** View, just like a regular stack. If you want to get rid of it again, just drag it out of the Dock.

15. Expose your Dock

By default, clicking and holding on the Dock icon for an active application in Snow Leopard activates *Dashboard Exposé*, showing all of that application's currently-open windows. In Leopard, of course, this gave you a contextual menu; that's something you can access in both operating systems by right-clicking on the icon in question. If you're running Snow Leopard but prefer Leopard's way of doing things, type the following *Terminal* command:

```
defaults write com.apple.dock show-expose-menus -boolean no; killall Dock
```

Repeating the command with 'YES' instead of 'NO' returns your Dock's *Exposé* functions to normal.



Some users might prefer this new way of displaying Dock-based folders and Stacks in their own List view.

16. Grid view highlights

If you open a Stack in **Grid** view, you can navigate through its enclosures using your keyboard's arrow keys, with the currently selected icon highlighted by a grey gradient box. However, if you drag your mouse pointer over the Grid, no such highlighting appears – unless you use this *Terminal* command:

```
defaults write com.apple.dock mouse-over-hilite-stack -boolean YES; killall Dock
```

You now get the same grey background box during mouse-overs as you do when navigating through the Grid using the keyboard. Replace 'YES' with 'NO' to switch this off again, though we doubt you'll want to.

17. Dock the gloss

If you're not too keen on the 3D Dock, with its shiny glass finish showing reflections of the application icons, use this tip to switch to something a little simpler:

```
defaults write com.apple.dock no-glass -boolean YES; killall Dock
```

Your Dock background is now a much plainer translucent black design with a thin white outline. Icons are no longer reflected in the Dock, and open applications are indicated by a white dot instead of a blue floodlight. If you decide you prefer the 3D look after all you can repeat the command substituting 'NO' for 'YES', so you've nothing to lose by giving it a go.

18. Search your music

When you highlight a track in your *iTunes* library, you get a right-facing arrow in a circle. Clicking on this searches the iTunes Store for similar material. However, using this *Terminal* input, you can get it to search your library instead:

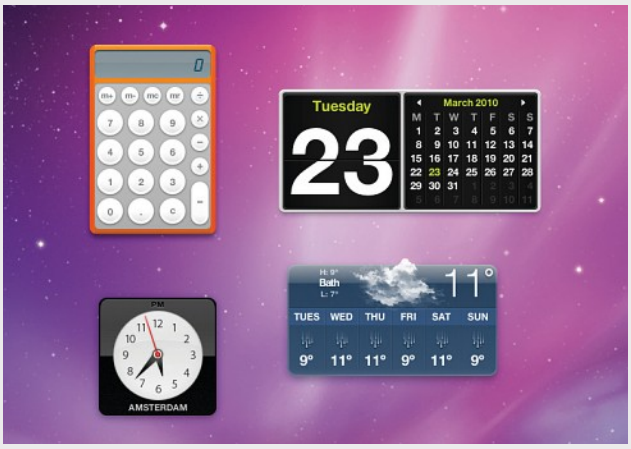
19 Drag Dashboard widgets onto your Desktop

One of the most interesting *Terminal* tips enables you to drag your widgets out of the *Dashboard* and onto the Desktop, where they float above open applications and *Finder* windows akin to the 'Gadgets' in Windows Vista's Sidebar. To activate it, type:

```
defaults write com.apple.dashboard
devmode YES
```

You must then log out and back in again, or restart your machine. You can now capture a widget by clicking and holding it, and pressing F12 to dismiss the *Dashboard* and drop it on your desktop. By capturing a widget that's on your desktop and pressing F12, you can return it to your *Dashboard* too. Widgets placed on the Desktop function just like they do on the *Dashboard*.

To disable this feature, repeat the code simply replacing 'YES' with 'NO'. Again, you must log out and in again or restart your machine for the change to take effect, after which widgets that are already on the desktop can be returned to the *Dashboard*, but there they must remain.



Liberate your widgets from the Dashboard - place them on the Desktop.

```
defaults write com.apple.iTunes invertStore
Links -bool YES
```

Restart *iTunes* to activate it, and repeat the command with 'NO' replacing 'YES' to switch things back to their default behaviour.

20. Expanded Save view

The Save command brings up a dialog window, enabling you to choose a title, where your document will save to and possibly the format in which it will be saved, depending on the application in question. Next to the title, there's a blue button with a triangle pointing down. Pressing this expands the dialog window, giving it a similar format to a *Finder* window. If you want this window to appear in its expanded form by default, type:

```
defaults write -g NSNavPanelExpandedState
ForSaveMode -bool TRUE
```

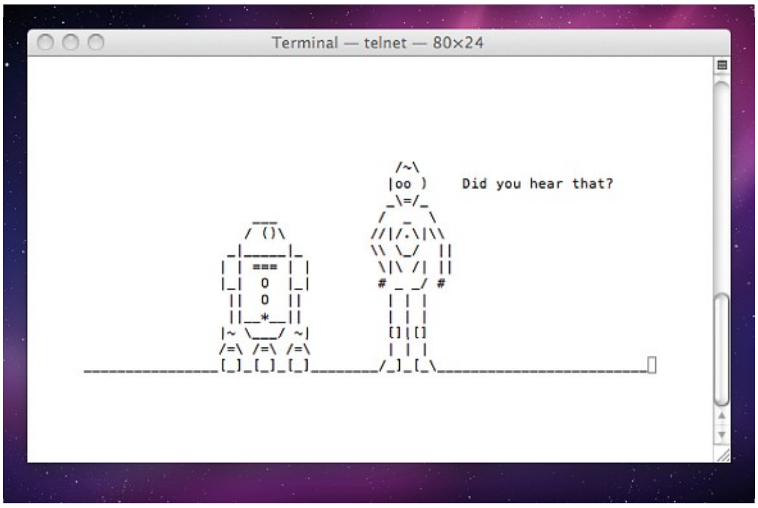
If needed, just replace 'TRUE' with 'FALSE' to revert to how things were.

21. Faster Screen Sharing

MobileMe's Screen Sharing facility is an excellent feature, but depending on your internet connection, it can be very sluggish. Thankfully, there's an easy way of speeding it up by using a *Terminal* command to reduce the image quality of the shared screen:

```
defaults write com.apple.ScreenSharing
controlObserveQuality 1
```

This reduces the screen to its lowest possible quality setting, giving you a black and white image. You can replace the '1' at the end of the command with the numbers '2' to '5', offering progressively higher quality screens. '2' gives a greyscale image, '3' offers eight-bit colour, '4' is 16-bit colour and '5' takes you back to full colour, the default setting.



```
                                     /~\
                                    |oo )    Did you hear that?
                                    _\=/_
                    ___            /  _  \
                   / ()\          //|/.\|\\
                 _|_____|_        \\ \_/  ||
                | | === | |        \|\ /| ||
                |_|  O  |_|        # _ _/ #
                 ||  O  ||          | | |
                 ||__*__||          | | |
                |~ \___/ ~|         []|[]
                /=\ /=\ /=\         | | |
________________[_]_[_]_[_]________/_]_[_\__________________________
```

"...They shut down the main reactor. We'll be destroyed for sure! This is madness!"

22. Screenshot names

If you capture a screenshot in Snow Leopard, it's automatically titled 'Screen shot', followed by a date and time. You can change this using a *Terminal* command:

```
defaults write com.apple.screencapture name
"Anything you like"; killall SystemUIServer
```

Simply change 'Anything you like' to whatever it is you wish to call the screens you capture – the date and time remain unchanged. To go back to the default, simply use this command with 'Anything you like' replaced by 'Screen shot'.

23. Reveal hidden files

There are several applications that let you look at OS X's hidden files, such as resource forks, but there's also a very simple command you can employ from the *Terminal*:

```
defaults write com.apple.finder AppleShowAll
Files TRUE; killall Finder
```

Be careful with this one. Those files are hidden for a reason, and while it's interesting to see what's there, don't fiddle with them unless you know what you're doing. To turn off this feature, repeat the command replacing 'TRUE' with 'FALSE'.

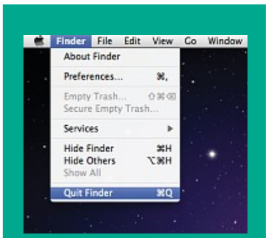
24. Copy, Gold Leader!

This must be the strangest *Terminal* command ever. Go on, type:

```
telnet towel.blinkenlights.nl
```

You're treated to the *Star Wars* movie, retold in ASCII art. Wait for the pre-film credits to end, and make sure you don't resize the *Terminal* window, or the graphics won't format properly.

Ian Osborne



25 QUICK TIP

With this handy command, you can quit out of *Finder* in the same way you would any other app:

```
defaults write com.apple.
finder QuitMenuItem -bool
YES; killall Finder
```

A **Quit** option now appears at the foot of the *Finder* menu. To remove it, enter the code again, replacing 'YES' with 'NO'.

Finder File Edit View Go Window Help
(0:10) Sat 22:44 MacFormat
OK
MacBook Pro

You are now running on reserve battery power.

You need to plug the power adapter into your computer and into a power outlet. If you don't, your computer will go to sleep in a few minutes to preserve its memory contents.

The latest MacBook Pro's batteries retain 80% of their capacity after 1,000 cycles.

Maximise your battery life

Tips and tricks to make your Mac notebook, iPod or iPhone go the distance

>>KEY INFO

DIFFICULTY: Beginner

TIME NEEDED: 20 minutes

WHAT YOU'LL NEED: MacBook, iPod or iPhone, internet connection

One of the reasons we love Apple's notebooks is their long battery life. The latest models coming out have batteries that are lasting for seven or even eight hours. This means that the days of frantically searching around for a power socket in an airport or station are largely gone. However, there are times when you won't be able to get your Mac notebook, iPod or iPhone to a power socket, and will therefore need to squeeze some extra juice out of your battery.

Until recently, you could carry a spare battery with you, which you'd simply swap in when your main one ran low. However, one of the ways in which Apple has driven down the size and weight of its notebooks is to incorporate the battery into the design. It has introduced built-in batteries gradually across the range – the easiest way to check whether yours has a removable battery is to look underneath and see if there's a large panel on the bottom with a release catch. If there is, swapping batteries is simple, but if not, you should consider how to get more life out of your built-in battery. We'll look at some ways in which you can get the best out of your iPod, iPhone or Mac notebook battery.

How long a battery lasts depends on its maximum charge capacity, the amount of charge it currently holds, the number of charge cycles it has had and what you're using it for. A charge cycle is completed every time you use up the full capacity of the battery and then recharge it, either in one go, or over time. So if you fully discharge your battery and then recharge it, you've used one full cycle. But you may only use half of its capacity before recharging it, in which case you've used half a cycle, so doing this twice equals a full one.

> *"Until recently, you could carry a spare battery with you, to swap in when your main one ran low"*

Charge over and over

Remember that the lithium batteries found in Apple hardware don't suffer from the 'memory' effect that older nickel cadmium ones did, so it's safe to recharge them at any point, regardless of how much charge is left in your battery.

HOW TO / Calibrate your battery

To keep your Mac's battery running as efficiently as possible and ensure that the menu bar battery monitor remains accurate, it's important to calibrate your battery every few months, or once a month if you leave your Mac plugged in most of the time. Apple also advises that you do this as soon as you buy a new Mac.

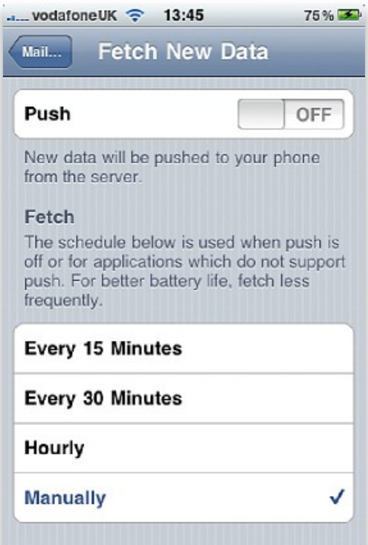
Calibration on older Mac notebooks simply involved charging the battery up fully and then using the computer on the battery until it went to sleep, at which point you'd need to recharge it fully.

However, this process is slightly different if you have a 15-inch PowerBook G4 with the double-layer SuperDrive, or any MacBook, MacBook Air or MacBook Pro.

To calibrate the battery on these machines, charge it up fully until the light on the connector turns green and the menu bar icon changes to a plug. Leave your notebook plugged in for a minimum of two hours to let the battery rest, but you needn't stop using your Mac during this time. Then, unplug the power adaptor and continue using your machine until it warns you that you're running on reserve power. Save whatever work you're doing at this point, but continue to use your Mac until it goes to sleep by itself. While your automatic reaction at this point may be to reach for the power adapter, don't plug it in just yet. Leave it to sleep for at least five hours, before recharging it fully to complete calibration. As mentioned elsewhere in this tutorial, calibration is important, but don't make a habit of exhausting the battery in this way.

Charge cycles are important because as your battery's cycle count goes up, its maximum capacity gradually degrades. However, it takes a large number of battery cycles before the capacity is significantly degraded. For the latest MacBook Pros, the built-in batteries have been designed to retain 80% of their full capacity after 1,000 cycles. For the newest MacBook Air, that figure is 750 cycles, while for the iPod and iPhone, it's 400, and for Mac notebooks with removable batteries, it's 300. To see your battery's current cycle count, go to Apple Menu > About This Mac and click More Info... In the window that appears, click Power in the left-hand column, and you'll see the cycle count listed on the right. There are various apps that display this data in a more friendly way, such as *CoconutBattery* (http://bit.ly/NiGP) or *Battery Health Monitor* (http://bit.ly/2g92wX). Both these tools also compare your battery's current maximum capacity to its original capacity, which gives you a good idea of how it's declined over time. Until your battery reaches the cycle counts mentioned here, you're unlikely to notice any major decline in performance, especially if you care for your battery properly.

> *"Until your battery reaches its cycle count you're unlikely to notice any decline in performance"*



Fetch New Data

Push OFF

New data will be pushed to your phone from the server.

Fetch

The schedule below is used when push is off or for applications which do not support push. For better battery life, fetch less frequently.

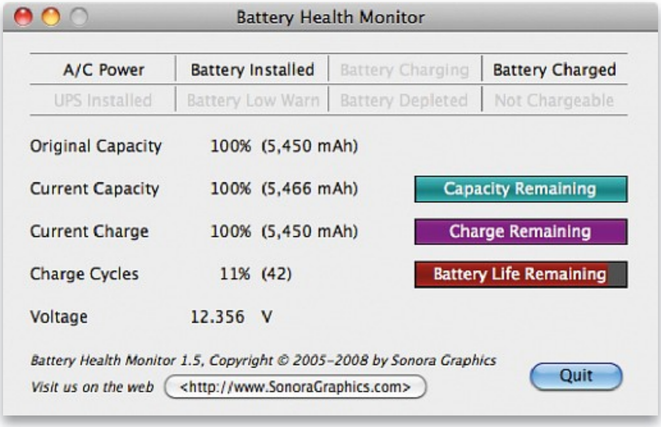
Every 15 Minutes

Every 30 Minutes

Hourly

Manually ✓

You can extend your iPhone or iPod touch's battery life by disabling push.


Battery Health Monitor

A/C Power	Battery Installed	Battery Charging	Battery Charged
UPS Installed	Battery Low Warn	Battery Depleted	Not Chargeable

Original Capacity 100% (5,450 mAh)

Current Capacity 100% (5,466 mAh)

Current Charge 100% (5,450 mAh)

Charge Cycles 11% (42)

Voltage 12.356 V

Battery Health Monitor 1.5, Copyright © 2005–2008 by Sonora Graphics

Visit us on the web <http://www.SonoraGraphics.com>

Battery Health Monitor gives you information about your battery.

Battery care

Lithium batteries need to be 'exercised' at least once a month, meaning fully discharged and then recharged. However, completely exhausting a battery regularly isn't good for it, so in general, try to recharge the battery before it's completely flat. Calibrating your battery on a regular basis ensures that you get the longest use out of it. For how to do this, see the 'How to calibrate your battery' box, above.

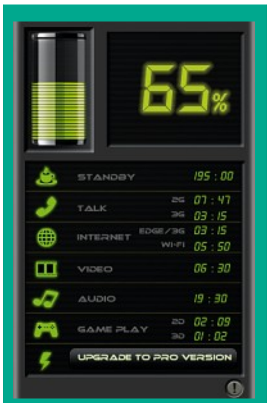
A question that often gets asked is whether its good for the battery to leave your notebook plugged in when it's charged. The truth is that there isn't a universally agreed answer. Clearly, with an iPod or iPhone, it's impractical to leave it plugged in for longer than is necessary. With a Mac notebook, leaving it plugged in once it's fully charged won't damage the battery in the short term, because it stops charging. But leaving it plugged in all the time isn't recommended, because of the need to keep the battery exercised. So if you mostly run your laptop plugged in at your desk, try taking it elsewhere and using it on battery now and again. We'd also recommend unplugging the power adaptor when you're not using or charging your notebook.

Lastly, don't get your battery too hot, because this can damage its capacity permanently – it's designed to operate between 0°C and 35°C. If your battery gets very cold, it won't last as long as normal, but this won't do permanent harm.

Let's now look at some ways you can get more life out of your battery while you're out and about. The key rule is to minimise strain on it by disabling as many things as you can. There has to be a balance, of course, because if switching off Wi-Fi, for example, prevents you from doing any work on your MacBook, then doing so clearly isn't practical. So pick and mix from the following ideas, depending on what you need your Mac, iPod or iPhone for at the time.

The biggest factor in determining how long your notebook's battery will last is what you're using the

»


65%

STANDBY 195 : 00

TALK 2G 07 : 47, 3G 03 : 15

INTERNET EDGE/3G 03 : 15, WI-FI 05 : 50

VIDEO 06 : 30

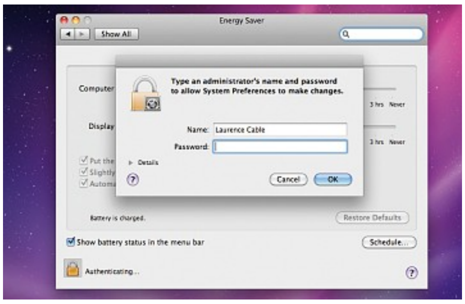
AUDIO 19 : 30

GAME PLAY 2D 02 : 09, 3D 01 : 02

QUICK TIP

There are third-party iPhone monitoring apps that give you estimates on how long you'll be able to do a range of tasks, based on how full your current battery is. The app shown here is called About Battery and is free.

HOW TO / Optimise your Energy Saver settings


Energy Saver
Show All
Computer
Display
3 hrs Never
3 hrs Never
Details
Cancel
OK
Restore Defaults
Schedule...

Type an administrator's name and password to allow System Preferences to make changes.

Name: Laurence Cable

Password:

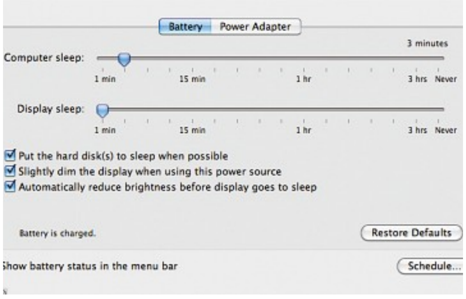
Battery is charged.

☑ Show battery status in the menu bar

Authenticating...

01 System preferences

Open *System Preferences* and click the Energy Saver icon. You may need to click the lock in the bottom-left corner and enter an administrator password to make changes. Note the tabs at the top that offer different settings depending on what power source you're using.


Battery
Power Adapter
1 min
15 min
1 hr
3 hrs
Never
1 min
15 min
1 hr
3 hrs
Never
Restore Defaults
Schedule...

Computer sleep: 3 minutes

Display sleep:

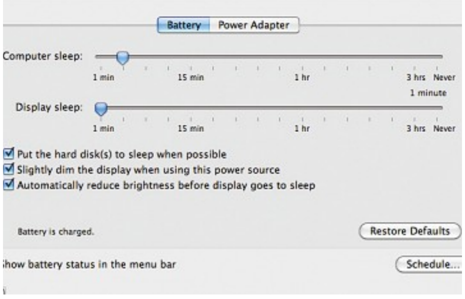
☑ Put the hard disk(s) to sleep when possible
☑ Slightly dim the display when using this power source
☑ Automatically reduce brightness before display goes to sleep

Battery is charged.

Show battery status in the menu bar

02 Set to sleep

Click **Battery**. The **Computer sleep** slider sets the amount of time before your Mac goes to sleep. Set this to around five minutes. Don't set it too low, or you'll find your Mac going to sleep if you look up from it for a short time, and constantly waking it up uses valuable power.


Battery
Power Adapter
1 min
15 min
1 hr
3 hrs
Never
1 min
15 min
1 hr
3 hrs
Never
Restore Defaults
Schedule...

Computer sleep:

Display sleep: 1 minute

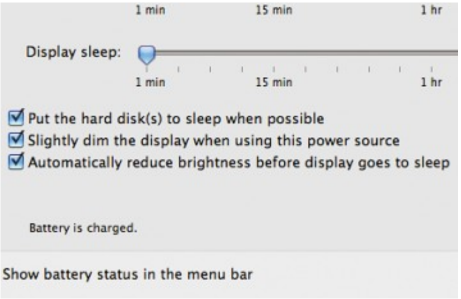
☑ Put the hard disk(s) to sleep when possible
☑ Slightly dim the display when using this power source
☑ Automatically reduce brightness before display goes to sleep

Battery is charged.

Show battery status in the menu bar

03 Display setting

The **Display** sleep slider can safely be set to one minute. Dimming the display when you're not using it saves a lot of power, but pressing any key or touching the trackpad wakes it up instantly, so there's no inconvenient or battery-draining wait while it wakes up again.


1 min
15 min
1 hr
1 min
15 min
1 hr

Display sleep:

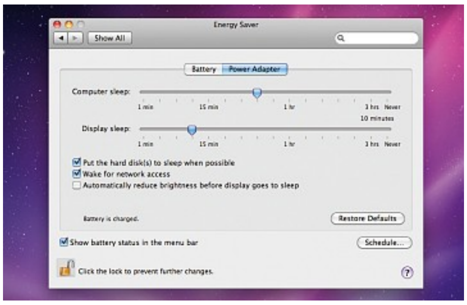
☑ Put the hard disk(s) to sleep when possible
☑ Slightly dim the display when using this power source
☑ Automatically reduce brightness before display goes to sleep

Battery is charged.

Show battery status in the menu bar

04 Stop the spin

Spinning the hard disk clearly drains the battery, so tick the **Put the hard disk(s)** to sleep when possible box. Similarly, activate both **Slightly dim the display when using this power source** and **Automatically reduce brightness before display goes to sleep**.


Energy Saver
Show All
Battery
Power Adapter
1 min
15 min
1 hr
3 hrs
Never
1 min
15 min
1 hr
3 hrs
Never
Restore Defaults
Schedule...

Computer sleep:

Display sleep: 10 minutes

☑ Put the hard disk(s) to sleep when possible
☑ Wake for network access
☐ Automatically reduce brightness before display goes to sleep

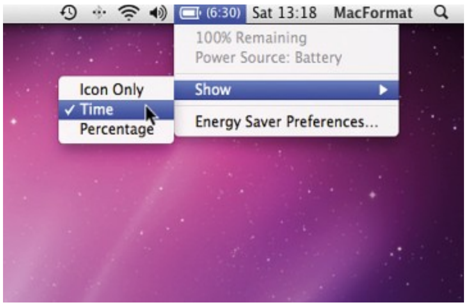
Battery is charged.

☑ Show battery status in the menu bar

Click the lock to prevent further changes.

05 Power down

If you don't want your Mac display going to sleep as quickly when you've got it plugged in, click the **Power Adapter** button at the top, and adjust the settings. Your computer automatically toggles between the two configurations when you connect or disconnect the power.


(6:30)
Sat 13:18
MacFormat
Icon Only
✓ Time
Percentage
Show
Energy Saver Preferences...

100% Remaining

Power Source: Battery

06 Battery status

Make sure that **Show battery status** in the menu bar is ticked. Click on the battery icon and select Show > Time. This will display an estimate for how much time your battery will last, based on what you're currently doing on your Mac.

QUICK TIP

Apple often releases OS X updates to make its hardware more efficient, thereby extending battery life. Use *Software Update* to check what's new.

machine for. Anything processor-intensive, such as playing a 3D game or movie editing, will run the battery down much more quickly than writing emails or word processing. So first and foremost, make things as easy as possible for your Mac. The next step is to use **Energy Saver** in **System Preferences** to optimise your Mac for best battery life. See the walkthrough above for how to do this.

Hungry for power

Now let's disable some power-hungry features. If you have a MacBook Pro with dual graphics cards, you'll see an additional option in **Energy Saver**, where you can switch between **Better battery life** and **Higher performance**. The first option disables the discrete card and runs the machine off the less-powerful integrated chip. However, switching between the two requires you to log out and log back in, so swapping regularly isn't practical. We find the integrated graphics to be adequate for most things, so unless you do a lot of high-performance gaming or video work, set this option to **Better battery life**, log out, and log back in.

Next, disable **AirPort** (System Preferences > Network > AirPort, or in the AirPort menu) and **Bluetooth** (System Preferences > Bluetooth, or in the **Bluetooth** menu). Then, turn off the keyboard backlight (F5) and turn down screen brightness as low as is comfortable (F1 and F2 adjust this). Mute the sound with F10 and, if you have a CD or DVD in the drive, eject it. USB and FireWire devices are another drain on power, so any that you're not using should be unplugged. If you're working from a document on a USB stick, copy it to your hard drive

> *"USB and FireWire devices are another drain on power, so any that you're not using should be unplugged"*

and eject the stick. If your notebook has a webcam, avoid using it.

Software can also use up charge, even if you're not actively using it, so quit any apps you can and disable the *Dashboard* widgets you don't need. Click the **Dashboard** icon in your Dock or press F4, then hold down ⌥ as you hover over any you wish to close, and click the cross in the top corner.

KEY INFO / Battery replacement options

If your Mac notebook has a removable battery, you can buy replacements from the Apple Store, or from other online retailers. Check that it's compatible with your machine, and be careful buying second-hand, because the battery could have degraded over time, or been used previously.

If you find that your Apple product has a defective battery, it can be replaced if it's under warranty or the AppleCare Protection Plan. If your Mac, iPod or iPhone is out of warranty, Apple offers a battery replacement service for hardware with built-in batteries. For most notebooks, this costs £99, and for the 17-inch MacBook Pro, £139. Replacing the iPhone battery costs £63, while for the iPods, it's between £37 and £67. If you choose to do this, remember to back up the contents of your device first, because it may get wiped during the replacement process. If it's an iPod you're sending in, you'll receive either a new or a refurbished one as a replacement, rather than your original unit. For more details, see **www.apple.com/uk/batteries/replacements.html**.

If you feel this is a bit expensive, it's possible to swap the battery yourself. We must point out that attempting this will void your machine's warranty, and may also mean that Apple won't repair it in the future, even if you pay.

www.ifixit.com/Guide has illustrated walkthroughs for how to replace batteries.

iPod classic and nano

It's maddening if your iPod battery dies on you mid-commute, but by following some simple tips, you can make it last noticeably longer. The main concept is the same as with the Mac notebooks – reduce the strain on the battery as much as possible.

As with Mac notebooks, the screen backlight uses a lot of power. If you have an iPod classic or nano, minimise the amount of time it stays on in Settings > Backlight or Settings > General > Backlight. Next, turn down the screen brightness in Settings > Brightness or Settings > General > Brightness. Using the sound EQ also requires more power; to disable this go to Settings > Music > EQ.

> *"Skipping through songs means it has to access the hard drive frequently, which increases battery use"*

When you're listening to music on your iPod, it buffers a number of songs in its RAM so it doesn't have to access its hard drive between each track. Skipping through songs regularly means it has to access the hard drive more frequently, which increases battery use. So it's a good idea to arrange your tracks into playlists that you'll be happy to listen to without constantly skipping through. Or, make use of tags in *iTunes*, so that you can browse in that way and only listen to the music you're in the mood for.

iPod touch and iPhone

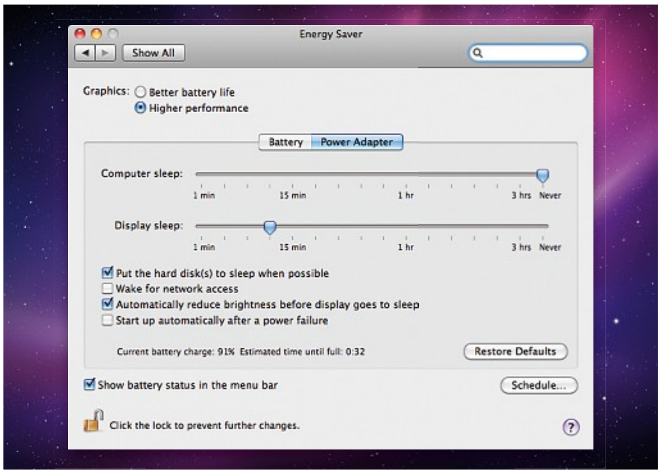
You can apply most of the iPod tips to the iPod touch and iPhone, but there are some additional ways to extend the battery life on these models. Both come with an **Auto Brightness** option in Settings > Brightness, which automatically adjusts the screen depending on the amount of ambient light. Set this to **On**.

Next, disable **Wi-Fi** and **Bluetooth** in Settings > General > Bluetooth, or Settings > General > Network > Wi-Fi. **Location Services**, which uses data from 3G and nearby Wi-Fi networks to pinpoint where you are, can also be disabled in Settings > General > Location Services. On the iPhone, deactivate 3G in Settings > General > Network, but remember that this will slow down internet access.

Some email services, including MobileMe, alert you as soon as a new message arrives via 'push', meaning the message is pushed to your phone from the server immediately. This uses a lot of battery, so disable it in **Settings** > Mail > Fetch New Data. If you do disable it, your iPod touch or iPhone will still check for mail at regular intervals using Fetch. Save power by setting this to **Hourly** or **Manually** on the same screen.

Lastly, turn off all sounds in Settings > Sounds, including the **Vibrate** option on the iPhone.

Laurence Cable


Energy Saver
Show All
Battery
Power Adapter
Restore Defaults
Schedule...

Graphics: ○ Better battery life
● Higher performance

Computer sleep: Never
Display sleep: between 1 min and 15 min

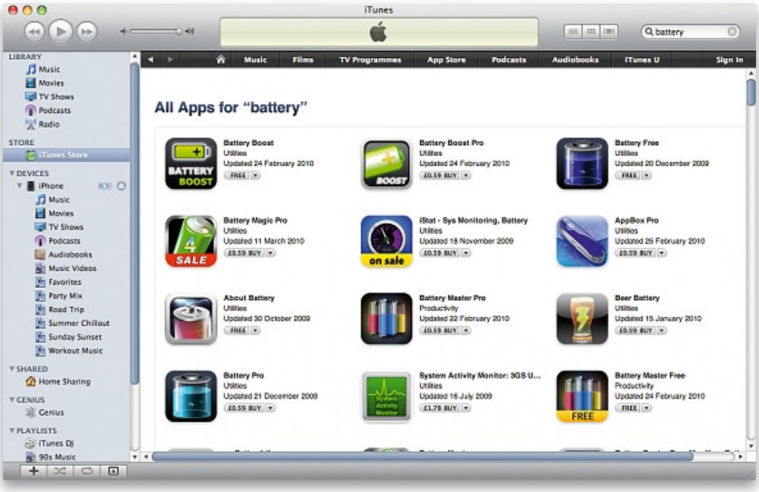
☑ Put the hard disk(s) to sleep when possible
☐ Wake for network access
☑ Automatically reduce brightness before display goes to sleep
☐ Start up automatically after a power failure

Current battery charge: 91% Estimated time until full: 0:32

☑ Show battery status in the menu bar

Click the lock to prevent further changes.

If your MacBook Pro has two graphics cards, update to Better battery life.


iTunes
battery
LIBRARY
Music
Movies
TV Shows
Podcasts
Radio
STORE
iTunes Store
DEVICES
iPhone
Music
Movies
TV Shows
Podcasts
Audiobooks
Music Videos
Favorites
Party Mix
Road Trip
Summer Chillout
Sunday Sunset
Workout Music
SHARED
Home Sharing
GENIUS
Genius
PLAYLISTS
iTunes DJ
90s Music
Music
Films
TV Programmes
App Store
Podcasts
Audiobooks
iTunes U
Sign In
BATTERY BOOST
BOOST
SALE
on sale
FREE

All Apps for "battery"

Battery Boost
Utilities
Updated 24 February 2010
FREE

Battery Boost Pro
Utilities
Updated 24 February 2010
£0.59 BUY

Battery Free
Utilities
Updated 20 December 2009
FREE

Battery Magic Pro
Utilities
Updated 11 March 2010
£0.59 BUY

iStat - Sys Monitoring, Battery
Utilities
Updated 18 November 2009
£0.59 BUY

AppBox Pro
Utilities
Updated 25 February 2010
£0.59 BUY

About Battery
Utilities
Updated 30 October 2009
FREE

Battery Master Pro
Productivity
Updated 22 February 2010
£0.59 BUY

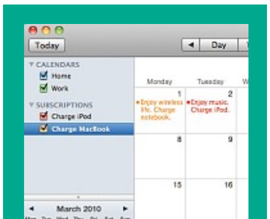
Beer Battery
Utilities
Updated 15 January 2010
£0.59 BUY

Battery Pro
Utilities
Updated 21 December 2009
£0.59 BUY

System Activity Monitor: 3GS U...
Utilities
Updated 16 July 2009
£1.79 BUY

Battery Master Free
Productivity
Updated 24 February 2010
FREE

There are plenty of iPhone and iPod touch battery status apps available.


Today
Day
CALENDARS
Home
Work
SUBSCRIPTIONS
Charge iPod
Charge MacBook
Monday
Tuesday
1
2
Enjoy wireless life. Charge notebook.
Enjoy music. Charge iPod.
8
9
15
16
March 2010
Mon Tue Wed Thu Fri Sat Sun

QUICK TIP

If you keep your Mac notebook plugged in most of the time, you can get reminders to discharge and recharge its battery once a month to keep it working efficiently. Subscribe to the two *iCal* calendars on the right-hand side of the page at **www.apple.com/batteries**.

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FIVE REASONS WE'RE EXCITED ABOUT CREATIVE SUITE 5

It's only software – but for creative types, each iteration of Adobe's professional suite can prove a life-changing experience. **Adam Banks** looks at what CS5 will offer

Does your job involve creating content? Then you're probably running software from Adobe. It's hard to match the power of *Photoshop*, the depth of *InDesign* or the intricacy of *Illustrator* – though Apple is having a pretty good crack at *Premiere Pro* with *Final Cut*. *Dreamweaver* is in a world of its own, and *Flash* can make iPhone apps (but Apple may be about to prevent this. See http://bit.ly/os40flash for the latest news).

Creative Suite 5 is due out in May. As always, it comes in a choice of editions, (http://tinyurl.com/y9hbtlv). We've had a thorough play with the popular Design Premium apps. On page 75 we also take a look at what's new elsewhere.

Illustration by Luke O'Neill

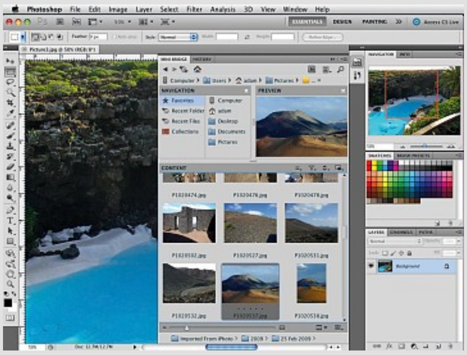
>> CS5 HEADLINES! >> 64-BIT PROCESSING COMPLETES OPERATIONS UP TO 10X FASTER

» MIDDLE MEN / The handy tools that tie Creative Suite together

Besides the core apps, *CS5* comes with a number of cross-suite utilities. The first surprise is that *Version Cue* has disappeared. This content management tool was introduced in *CS2* to track revisions to files used in the various apps and help users collaborate via PDF. It was widely ignored. Adobe now says users should look to third-party asset managers instead.

What we gain is *CS Live*, a bunch of online collaboration and knowledge sharing tools accessible from within the *CS* apps. At the time of writing the details were still under wraps, but among the services pencilled in are *CS Review*, which enables multiple users to view and annotate the same document or movie; *BrowserLab*, to preview web content across platforms and browsers; and *SiteCatalyst*, the analytics product from Omniture. Adobe may charge extra for some or all of these.

Preserved from earlier versions are *Device Central*, which previews *Flash* content on a wide range of device simulators, and *Bridge*, the media browser. The latter is now also available as *Mini Bridge*, an in-app panel that saves you having to switch to the *Bridge* app.


Photoshop File Edit Image Layer Select Filter Analysis 3D View Window Help

» REASON WE'RE EXCITED #1

Photoshop Content-Aware Fill

Blemish removal like you've never seen it before – if only it was real life

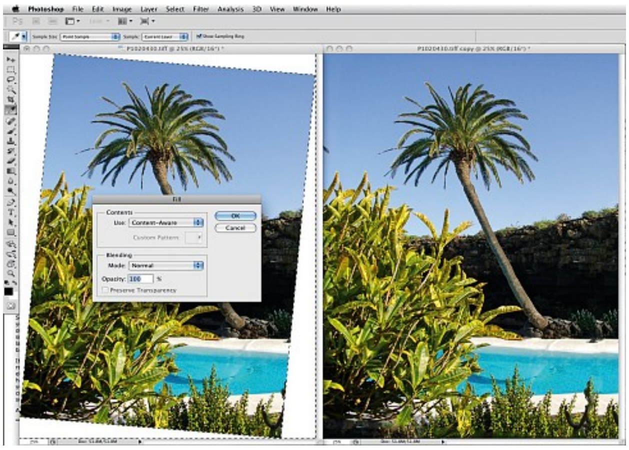
Photoshop has been around for 20 years now, and it's getting hard to imagine what more Adobe could add. But it always seems to come up with something, and *CS5* is no exception. One of the cleverest features in *CS4* was Content-Aware Scaling. This let you change the proportions of a picture – say, a landscape – without squashing key features within it, such as people. It does work, with a bit of help, but if we're honest there aren't all that many occasions when it's actually needed.

CS5 introduces a similar concept that we reckon will see a lot more use. It's called Content-Aware Fill. Select any area of an image (with the Lasso or any of the usual tools) and press ↵. You're offered various fill options, the default being Content-Aware, which does what you'd otherwise attempt with the Clone Stamp: borrows surrounding areas of the image to fill the selected area seamlessly.

Does it work? Well, all right, not always. Sometimes it looks too far afield, so part of the foreground might get filled with sky; sometimes it behaves like a clone tool newbie, creating obvious repeats and leaving hard lines around edits. (You can help avoid the latter by feathering your selection.) And it can take half a minute or so to complete.

So why are we excited about it? Because when it does work, it saves loads of time on a very common task. A quick drag and a click removes unwanted elements from irregular surroundings. You might have to fix a glitch here and there, but the donkey work is done. And it's not only good for patching over objects. When you've rotated a picture or stitched it together from multiple shots, you'll have an odd-shaped empty area around it. Instead of cropping this off, you can Content-Aware Fill it. This sounds mad, but often it works miraculously well, as you can see on the right.

Although we've picked Content-Aware Fill as our most exciting feature of *Photoshop CS5*, it was a close race: Puppet Warp is a new reshaping tool that's more precise than Liquify, and HDR Toning creates stunning tone-mapping effects. The new Refine Edge tools may finally make it practical to cut out impossible subjects like wispy hair without third-party add-ons; the Mixer Brush brings wet blending to *Photoshop* for the first time; and for Extended users, Repoussè is a 3D extrusion tool reminiscent of *Adobe Dimensions*. Oh, and DSLR snappers not only get *Adobe Camera Raw 6*, but also smarter lens correction filters which can be profiled for any lens.


Photoshop File Edit Image Layer Select Filter Analysis 3D View Window Help
Fill
Contents
Blending
OK
Cancel
Custom Pattern

Use: Content-Aware
Mode: Normal
Opacity: 100 %
☐ Preserve Transparency

Content-Aware Fill completes a wonky image with no trouble at all - spooky!

» WE'RE ALSO EXCITED ABOUT

- HDR Toning: hyper-real photo effects
- New brush functions: Mixer and Bristles
- Enhanced raw editing with noise reduction
- More 3D tools available in Extended

» REPOUSSÉ EXTRUDES 3D FORMS IN PHOTOSHOP EXTENDED: AFTER EFFECTS COMPATIBLE

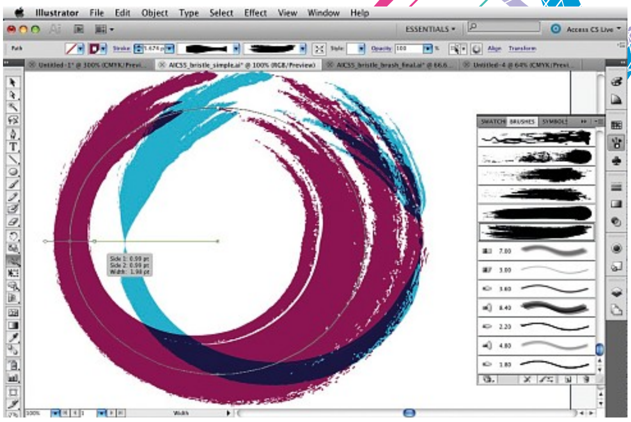
» REASON WE'RE EXCITED #2

Greater control in Illustrator

Customise your vector-drawn strokes

For original artwork, scalable logos and eye-popping technical illustrations, vector drawing is an essential pro graphics skill. While *Illustrator* has never pretended to make it easy, it has offered a growing range of ways to bring life to your basic skeleton of vector paths. But the devil is in the detail: ironing out the kinks and achieving perfection can prove almost impossible – and vector artists are nothing if not perfectionists.

That's why they're going to like *CS5*. Among its innovations is a bunch of ways to tweak what you've drawn. First among them is variable width strokes. It's long been possible to draw lines that vary along their length by applying a tapering brush. Now you can click to add width points to any path and drag handles to widen it at that point. Effects scale to follow.


Illustrator File Edit Object Type Select Effect View Window Help

Width Tool and Bristle Brushes: both exciting, though you can't use them on the same path.

Dashes, arrowheads and complex brushes gain comprehensive controls, ensuring they stretch and repeat as you intended. And with 9-slice scaling, you can draw objects such as labelled buttons that scale intelligently: for example, preserving the roundness of corners and proportions of text while adjusting in length to fit another space.

» WE'RE ALSO EXCITED ABOUT

- Perspective Grids for 3D vanishing points
- Easier 'painting' of vector shapes with Draw Inside
- Better handling of Artboards (pages)

» REASON WE'RE EXCITED #3

Introducing Flash Catalyst

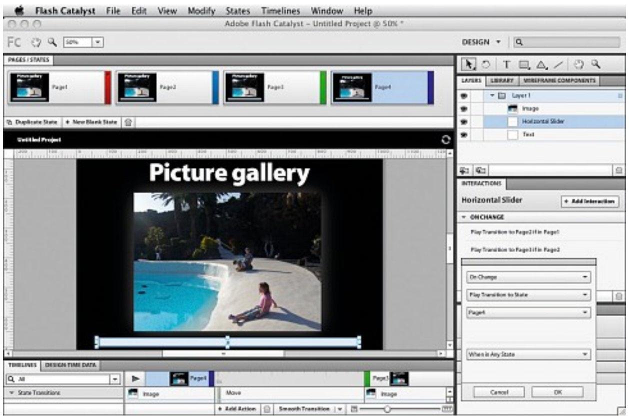
Easier interactive tools for designers

» WE'RE ALSO EXCITED ABOUT

- *Flash Pro*'s expanded text handling
- Adobe's use of standardised XML file formats for content to be exchanged between *Creative Suite* apps

Flash is popular with graphic designers as a way to get into interactive media through their creative skills rather than from a programming background. But the more capable *Flash* gets, the harder it looks to newcomers.

If you just want to make a simple animation that displays stuff when a user clicks buttons, help is at hand. *Flash Pro* itself comes with Code Snippets to help you do more without having to write your own ActionScript. And new to *Creative Suite* is *Flash Catalyst*, which adds interaction and animation to artwork you create in *Photoshop*, *Fireworks* (the graphics optimiser and web prototyper included with *CS*) and *Illustrator*, or indeed video from *Premiere Pro* and *AfterEffects*. The end result can be an SWF file or an Adobe AIR app, both compatible with a variety of platforms.


Flash Catalyst File Edit View Modify States Timelines Window Help
Adobe Flash Catalyst – Untitled Project @ 50% *
Picture gallery

Using Flash Catalyst, turn your artwork into interactive components with a few clicks.

Flash Catalyst lets you design interactive content without the code. It does have a code view for tinkerers; it also integrates with *Flash Builder* to add more technical functionality, such as accessing database content. And finally, it gets away from *Flash Pro*'s timeline-based approach, which can confuse simple projects. Promising.

» ILLUSTRATOR PIXEL ALIGNMENT FOR ONSCREEN PROJECTS » ADD INTERACTIVE ELEMENTS

>> REASON WE'RE EXCITED #4

InDesign layout aids

Better, neater, faster ways to turn words and pictures into pages

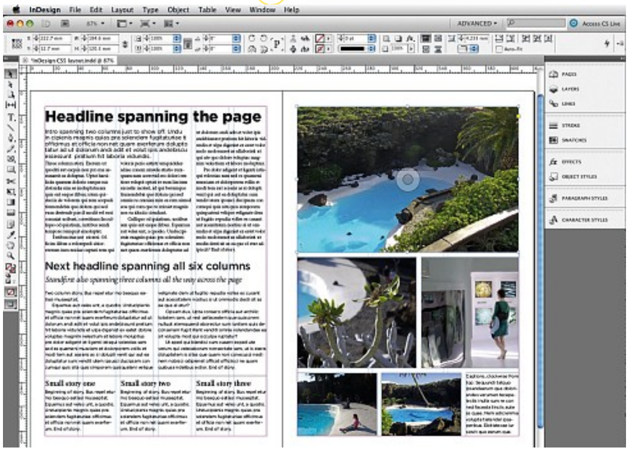
Of all the *Creative Suite* apps, *InDesign* probably has to work hardest to impress. Not to keep up with the competition – *QuarkXPress* is a worthy rival, but it only gets a major upgrade once in a blue moon. No, *InDesign's* problem is simply that many users of desktop publishing (DTP) software would rather stick with what they've got. Upgrading is a hassle, and when it comes down to it, how many new ways can there be of sticking text and pictures on a page?

Quite a lot, as it turns out. Like other DTP professionals, we don't like to have to change our habits; but what Adobe has done, rather sensibly, is add smarter ways you can work if you want to, while letting you carry on exactly the same as before if you prefer. For example, it's always been easy to re-crop pictures by repositioning an image within its frame using the Direct Selection tool. Now you don't even have to switch tools: moving over a picture shows a bullseye (a bit like the split-image focusing circles in an SLR camera) which you click and drag to reposition the image. Similarly, you can rotate an item without using the Rotate tool, and scale multiple items as one without having to group them.

Previously, you could set a radius numerically to round all the corners of a frame. Now you can drag handles to adjust the roundness of any corner or all at once. When creating a frame, you can press the cursor keys to divide it horizontally and/or vertically into a grid of equally sized and spaced items. It even works with ellipses and polygons.

Best of all are the new options for multi-column text. Having set a number of columns within a text frame, you can tell each paragraph to flow between the columns as normal or span multiple columns. This means you can set a headline within the same frame as a story, and more. Above, within a single six-column frame we've spanned paragraphs to vary the text between one, two and three columns.

Once set up, this gives you the flexibility to make each story longer or shorter without having to reposition any frames. But how? With the long-awaited automatic column balancing.



With the new InDesign, you can vary text column formats within a single frame.

Layers, central to *Photoshop* and *Illustrator*, are sometimes overlooked in *InDesign*. Now, though, the Layers panel is well worth a visit even if you don't use layers, because it lists every item on your page and lets you name items to help keep track of content.

Finally, *InDesign* now makes use of multi-threading to compile your work into a PDF in the background, while you get on with what you're doing. Consider us impressed.

>> WE'RE ALSO EXCITED ABOUT

- Animation and interaction functions for creating *Flash* projects in *InDesign:* apply motion presets and embed video and audio in your pages.

>> AND THE REST / What's new in the other CS apps

Beyond the apps in the Design Premium edition of *CS5*, the remaining major players are *Dreamweaver*, centrepiece of the Web Premium edition, and the video apps in Production Premium.

Premiere Pro, *After Effects* and the other video tools face stiff competition from Apple's *Final Cut Studio*. Some of *Premiere's* most important additions this time are under the hood: the Mercury playback engine takes advantage of today's Macs via 64-bit processing and GPU acceleration, to display effects in real time and render in the background, while more tapeless formats are natively supported, simplifying workflows with the latest HD TV cameras and DSLRs. There's closer integration with *Flash* and even with rivals *Final Cut* and *Avid*, and Adobe's fledgling script development system, Story, is added to the *CS Live* online collaboration tools.

Among the creative functions, Ultra is a new chroma keyer to cope with uneven lighting, wrinkly backdrops and frizzy hair. Similarly, *After Effects'* Roto Brush claims to separate figures cleanly from their background with minimal effort.

Dreamweaver gains better CSS inspection, code hinting and CSS starter layouts rewritten to reflect current best practice, as well as live support for PHP-based CMSs such as WordPress, Joomla and Drupal.

ADOBE® PREMIERE® PRO CS5
Adobe
Pr

IN INDESIGN AND EXPORT TO FLASH >> MULTIPLE PAGE SIZES PER INDESIGN DOCUMENT

» REASON WE'RE EXCITED #5

The Flash app packager

STOP PRESS!
Apple's new iPhone OS 4 terms and conditions would seem to prohibit development in Flash. See **http://bit.ly/os40flash** for more info!

Has Adobe come up with the perfect solution for mobile development?

» CREATIVE SUITE 5 QUOTES

What is the industry looking forward to...

"The ability to deploy *Flash* content to a device as native code is a milestone in rich media development."
Mike Jones, FlashGen.Com

"Many vendors want to reach multiple platforms. But for me, *Flash CS5* lends itself more to creating rapid prototypes for apps that will be developed natively later."
Dale Rankine, Appland Team Lead, Vodafone Hutchison Australia

"iPhone apps weren't intended to be built in *Flash*, so it feels like a kludge. Using DTP apps to create online content is another kludge. It could work, in the same way that using a chainsaw to fix my toilet could work."
Rick Lecoat, Shark Attack Ltd

"Any perceived limitations can often be overcome by sufficient ingenuity."
Matt Gemmell, Instinctive Code

Please note that the opinions expressed are those of our interviewees and not necessarily of their employers.

Anyone involved in creating content is probably wondering about developing apps for the iPad – not forgetting the iPhone and iPod touch. But that means knowing how to code in the Apple SDK, or finding someone who can. That's the barrier Adobe is trying to break down with *Flash Professional CS5*. *Flash* content runs on a variety of devices via *Flash Player* in web browsers and *Flash Lite* on phones, but Apple's mobile devices don't support it. To get around this, *Flash Pro CS5* now has an option to export your project as an iPhone/iPad app.

The question for mobile developers will be whether Flash is a platform well suited to their aspirations.

And it works. Using the beta version, Adobe and a number of independent developers have already released iPhone apps created this way. Some are typical *Flash* games, but the scope is limitless. For example, *CavityFree 3D* is a toothbrushing tutor for iPhone from US healthcare firm ICE Dental Systems. Peter Hoven at Essentialtalk, which produced the app, explains: "We're very familiar with *Flash*, so we found the process straightforward and we expect to develop more apps using *CS5*." For example, dentists might check patients' radiographs on an iPad.

Is *Flash* the right tool to make apps? We found expert opinion divided. Mike Jones, Flash Platform Consultant at FlashGen.Com, thinks the ease of repurposing existing content will drive adoption: "A lot of *Flash* developers and designers will be looking to deploy games. There will be work to remodel them for a different form factor, but the game mechanics in most cases will remain the same. Then they can start to harness features like Multi-Touch, the accelerometer and location."

For more practical applications, it's significant that *Flash* can't access the iPhone's own user interface, so apps will look non-standard. Jones acknowledges the issue, but says: "At the end of the day, if a client wants to deploy to iPhone, this is a way to achieve that. I don't see the lack of native UI support being a barrier, although I'd like the ability to plumb this." Matt Gemmell at Instinctive Code points out: "The bulk of apps for the iPhone are toys, games and utilities with custom UIs, so *Flash* seems perfectly acceptable."

> *"The bulk of apps are toys, games and utilities with custom UIs, so Flash seems perfectly acceptable."*
> **Matt Gemmell, Instinctive Code**

Ian Betteridge, an editor at Redwood working on interactive publications for BT, is sceptical. "History is littered with 'write once, deploy anywhere' frameworks, and they never offer the performance or flexibility of native development."

Hockenberry's forthcoming book, *iPhone App Development: The Missing Manual*, encourages native coding. But *Flash Pro* demands little or no coding at all. You can even add animation and interaction to your artwork in *InDesign CS5* and import from there. Transferring *Catalyst* projects is possible, though fiddly, via *Flash Builder* in the Web and Master editions of *CS5*. The *Flash* route may not be perfect, then, but it's accessible – you can join the iPhone Developer Program to submit apps to the App Store, for just £65 – see http://tinyurl.com/yl62d2a for more. ●

» CS5 PHOTOSHOP INCORPORATES USER INTERFACE TWEAKS SUGGESTED BY USERS

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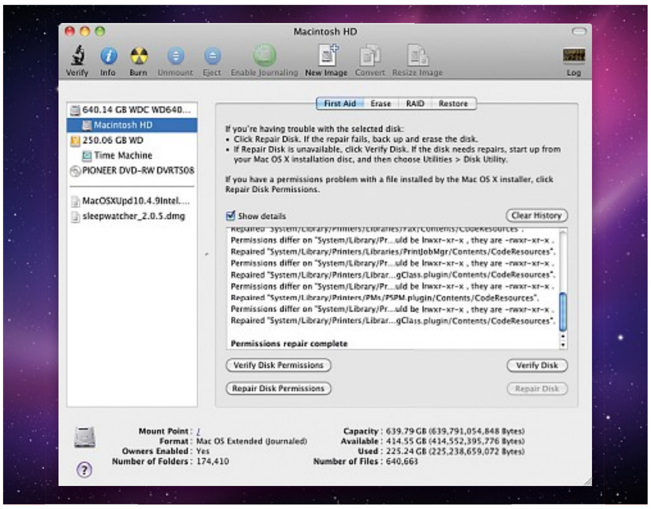
"Should I be rebuilding directories?"

Q Various utilities enable one to 'rebuild directories'. Should this be done regularly? If not, how do I know when to rebuild and which directories to rebuild? Are any of the rebuilding utilities easier to use than others?

Greg McCarry, Australia

A Rebuilding a directory or folder just means that the files are copied out of one folder and into another. The original is then usually deleted and the copy renamed to take its place. What's the point of that? Well, the act of creating the new files causes the filing system to write new entries for the catalog file (which is a sort of contents page for the disk volume). If the catalog file is corrupted, then recreating the directory can repair the damage by re-listing each file in a new entry within the catalog file. Some apps, such as *iTunes* and *Mail*, also have their own database pointing to each song or message to enable more advanced sorting and filtering than the OS X filing system permits. These databases can also get corrupted and 'rebuilding' can refer to the process of recreating this info.

There's no preventative value to rebuilding ordinary directories. It's just extra unnecessary disk access that, if anything, makes your disk wear out quicker. Because the purpose of app databases is often to speed up search operations, there is sometimes a performance benefit in rebuilding these (see the walkthrough overleaf for how to do this in *Mail*). But in general, you should wait until you notice something wrong, such as missing files or folders that won't open, and then use *Disk Utility's* Repair Disk and Repair Disk Permissions as your first step. If that doesn't help, consider a rebuilding utility as part of your troubleshooting process. *DiskWarrior* (www.alsoft.com) is one of the well-regarded ones.



If you're having trouble with the selected disk:
- Click Repair Disk. If the repair fails, back up and erase the disk.
- If Repair Disk is unavailable, click Verify Disk. If the disk needs repairs, start up from your Mac OS X installation disc, and then choose Utilities > Disk Utility.

If you have a permissions problem with a file installed by the Mac OS X installer, click Repair Disk Permissions.

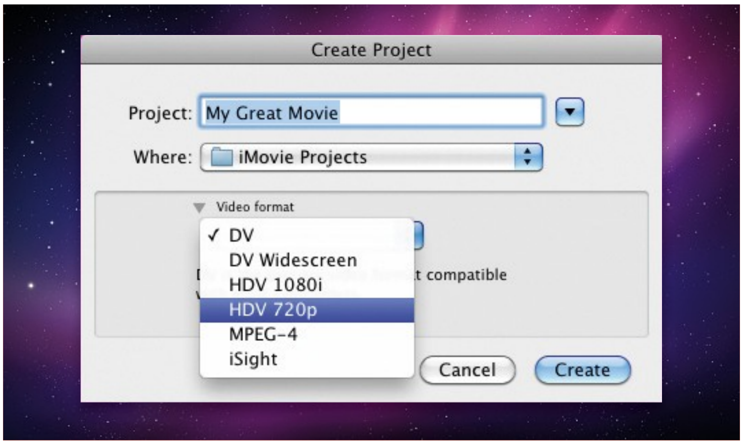
☑ Show details

```
Permissions differ on "System/Library/Pr....uld be lrwxr-xr-x , they are -rwxr-xr-x .
Repaired "System/Library/Printers/Libraries/PrintJobMgr/Contents/CodeResources".
Permissions differ on "System/Library/Pr....uld be lrwxr-xr-x , they are -rwxr-xr-x .
Repaired "System/Library/Printers/Librar...gClass.plugin/Contents/CodeResources".
Permissions differ on "System/Library/Pr....uld be lrwxr-xr-x , they are -rwxr-xr-x .
Repaired "System/Library/Printers/PMs/PSPM.plugin/Contents/CodeResources".
Permissions differ on "System/Library/Pr....uld be lrwxr-xr-x , they are -rwxr-xr-x .
Repaired "System/Library/Printers/Librar...gClass.plugin/Contents/CodeResources".

Permissions repair complete
```

Mount Point : /
Format : Mac OS Extended (Journaled)
Owners Enabled : Yes
Number of Folders : 174,410
Capacity : 639.79 GB (639,791,054,848 Bytes)
Available : 414.55 GB (414,552,395,776 Bytes)
Used : 225.24 GB (225,238,659,072 Bytes)
Number of Files : 640,663

Repairing permissions with Disk Utility should always be your first step.



Project: My Great Movie

Where: iMovie Projects

✓ DV

iMovie HD supports HD video and some users prefer its flexibility over iMovie 08 and 09.

"Why can't I detect my camcorder?"

Q I own a G4 iMac running 10.4.11. I've recently purchased a Canon Vixia-Legria HV40 camcorder. When I connect it via a FireWire lead to *iMovie (4.0.1)* in order to download the footage, the Mac informs me that the camcorder is not detected.

If the reason is because the G4 is not suitable, could you advise which of the latest MacBooks is capable of doing the job?

Charles Phillips

A It's not the G4, it's *iMovie*. Version 4 doesn't support the HDV video format, which your camera uses. You are connecting a current camera model to a version of *iMovie* that is six years old now. You need at least *iMovie HD5*, but I can't really see any argument for getting something lower than *iMovie HD6* (which is usually just called *iMovie HD* now).

A PS3 and a Time Capsule can exist on the same network without problems. In theory.

Whichever version you want, you'll need to buy all of *iLife* to get it, but you won't be able to go any higher than *iLife '08* without also upgrading to one of the Leopards. Copies of *iLife '06 to '08* are still available on Amazon though and they normally go for under £40. My advice would be to get *iLife '08*, because then you'll get *iMovie '08* and also *iMovie HD* and you can choose which one suits you best.

"Why won't my PS3 work properly on wireless?"

Q **I have a Speedtouch 5.10v6 ADSL Modem Router connected to my Airport Extreme Base Station dual band to provide my wireless internet access. My home is on three levels, so I use a Time Capsule 1TB dual band as a wireless repeater and backup drive to cover upstairs wireless reception range; it's in my lounge. The Extreme and modem are on the ground floor. The base station is set to bridge mode.**

I have a PS3 wirelessly connected to my network, but I have a strict NAT problem that limits some gameplay features. I have inputted the ports needed by *COD Modern Warfare 2*, to the Speedtouch and forwarded them to the PS3 IP address, but it's still a strict NAT. I need NAT to be 'open', not strict or moderate.

Who is blocking the PS3 from seeing/sending, and how do I find out? Is it the Time Capsule, Airport Extreme or the Speedtouch?

Gary Dickson

A Theoretically, any of your network links could be responsible since they are all providing some routing function, but it's probably the Speedtouch. To open NAT for the PS3, you normally need to do three things:

1. Give your PS3 a static IP address.
2. Enable Universal Plug and Play (UPnP).
3. Forward the right ports.

In your case, you can probably skip Step 1 because the Speedtouch forwards ports based on the MAC address (which is bound to the network hardware and unique for each device). But most other routers forward ports based on the IP address, which can change if you're using DHCP to automatically hand out IP addresses from a pool managed by the router. To fix this, use the network configuration settings on the PS3 to give it a static IP address that lies outside the range managed by DHCP. For example, if your router has DHCP configured with an address range of 192.168.1.1 to 192.168.1.30, you could give your PS3 a static IP address of 192.168.1.31.

Step 2 is mandatory for all routers but easy enough to do. The tricky bit is really Step 3 because there are lots of conflicting websites out there, all confidently asserting a different set of ports to open. In fact, for *Modern Warfare 2*, the only ports you should need to forward on the Speedtouch are 1500, 3005, the range between 27000 and 27050, and 28960. To access the Playstation Network correctly, you might also need TCP ports 80, 443 and 5223, as well as UDP ports 3478-3479 and 3658.

It's a high def life for me

Bill Gallop

So you want to buy an HD camcorder to replace your old MiniDV one.When you bought your last camcorder, life was simple, you bought a MiniDV camcorder (making sure that it had a FireWire port), plugged it into your Mac, opened up *iMovie* and started importing the video. Things have moved on a lot in the past few years so it ought to be even simpler to connect an HD camcorder to your Mac, right?

Wrong, I'm afraid. HD can mean a number of different things to different people. First, there is the resolution to contend with, do you want 720p, 1080i or 1080p and do you want that with square or rectangular pixels? Do you want to record to tape, flash card, internal memory or hard drive? What bit rate do you want, as low as 5Mbps or as high as 24Mbps? Do you want regular 25fps or 24fps progressive? Do you want to connect it to your Mac via FireWire, USB or HDMI or would you like to be able to take the media card out and plug that into a reader or the side of your MacBook Pro? All of that is on top of the regular choices that you will need to make such as how wide a zoom range you want, the size of the screen, if it has a viewfinder or not, what sort of image stabilisation it uses, how big it is and how long the battery lasts. Oh yes, there is also the question of whether it records as HDV, AVCHD, AVCHD-Lite, H.264 or MPEG-4.

> *"A problem you'll come across is some combinations will not work with iMovie or Final Cut Pro without extra software"*

A big problem you will come across is some of the combinations will not work with *iMovie* or *Final Cut Pro* without extra software; also a camera that works with one app isn't guaranteed to work with the other. Fortunately, Apple provides a guide to supported camcorders for *iMovie '08* (**http://support.apple.com/kb/HT1014**) and *iMovie '09* (**http://support.apple.com/kb/HT3290**). For *Final Cut Pro* you'll need to check the *Supported Devices database* (**www.apple.com/finalcutstudio/resources/supportdevices.php**).

Just because a camcorder doesn't appear in one of the supported lists doesn't mean it will not work. Sometimes you can connect it up but you may need a helper app such as *VideoPierHD* (**www.aquafadas.com/en/videopier/**) or *MPEG Streamclip* (**www.squared5.com/**). *MPEG Streamclip* is able to open just about any video format and then transcode it to something useful.

Bill is Mac Solutions Consultant for Equanet (www.equanet.co.uk). Each month he will share his knowledge with you, from upgrading your operating system to the advantages of RAW files.

» QUICK TIP

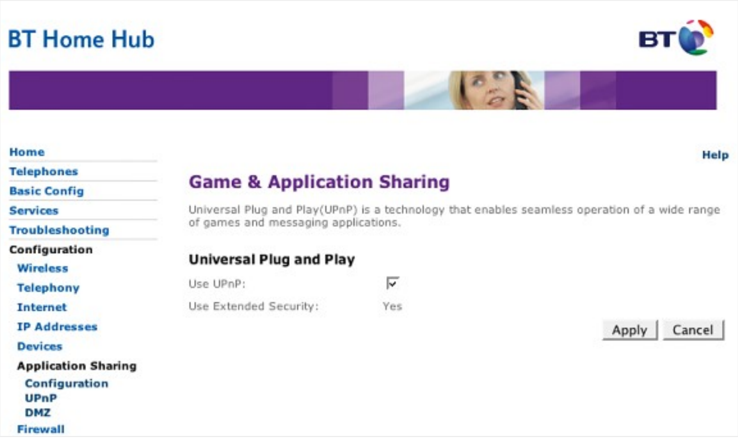
If *Safari's* autofill feature contains a typo or your personal details change, open *Safari* Preferences and click the Autofill button, and click Edit next to each of autofill source.

"Why does my Cinema display stay blank?"

Q **Sometimes the 23-inch Cinema display for my Mac Pro stays blank after I've switched the computer on, even though I can hear the computer start up. Sometimes I have to switch the computer on and off again several times for the screen to start up.**

Tony Ausano

A It's possible that this is a loose connection in the inverter circuit for the display, but I think it's most likely that the display isn't consistently being sent a wake-up signal from your Mac. Try unplugging the display from your Mac and deleting: /Library/Preferences/SystemConfiguration/com.apple.PowerManagement.plist. Then plug the display back in. I've seen some MacBooks that corrupt this plist regularly, so you might want to make an AppleScript to automate the file deletion. Or at least keep a note of the path/filename handy.



Game & Application Sharing

Universal Plug and Play(UPnP) is a technology that enables seamless operation of a wide range of games and messaging applications.

Universal Plug and Play

Use UPnP: ☑

Use Extended Security: Yes

Make sure UPnP is enabled on your router if you're having trouble with online gaming.

"Why is my iChat appearing with a blocky picture?"

Q **Since my ISP upgraded my connection to a 10Mb line and a new modem, *iChat* video has become unusable. At my end, the video being received is good. At the other end, the picture is blocky with all my *iChat* video contacts.**

The Connect Doctor says 'Router Type: Symmetric' with the explanation: 'This computer's network setup includes one or more devices that are not fully compatible with audio and video chatting'. I have looked on the web for a solution, but am baffled by what I have found.

Richard Barr

A Video chat apps need to establish a persistent connection between sender and receiver so frame updates can be sent fast enough. This requires you to have an IP address at each end, but most of us connect to the network through a router that uses NAT (Network Address Translation). This enables each computer on the home network to have a local IP address, but then have this translated to a single, shared, external IP address for all traffic to and from the internet. Different apps solve this in different ways. *Skype* will co-opt the network connections of other active *Skype* users as a way of getting around NAT routers, but *iChat* uses an external SNATMAP server instead. This acts as an introduction service to tell each party which IP address and port numbers to use for the session. Once the connection has been made, the SNATMAP server drops out and the chat parties communicate directly.

A symmetric router is designed to enable external servers to only

» MACFIXIT TIPS / Finder crashing when scrolling through folders

Some people have been experiencing issues whereby *Finder* in Snow Leopard will crash either when navigating through folders or when scrolling. There is no apparent fix for this issue, but people have found temporary success by running maintenance routines and fixes on the system to revert settings and customisations back to default. Here are some you can try:

Remove Finder preferences

Go to the /username/Library/Preferences/ folder and remove the file "com.apple.Finder.plist" and then log out and log back in. If you cannot scroll through the preferences folder because of the crashes, then enter the following command in the *Terminal* to accomplish the same task:

```
rm ~/Library/Preferences/com.apple.
  Finder.plist
```

In addition to removing the preferences, try going to the *Finder* preference settings and view options (in the View menu) and disable features in there. Disable the option to calculate file sizes, and show icon previews. Update these settings for all folder views by changing them for one folder and you can then click "Use as Defaults" to apply them to all folders.

Remove DS_Store files

Corruption in individual folder settings files could be adding to these problems. To remove these files, try using a utility like *BlueHarvest* to clear them from local drives. You can also use this utility to prevent the .DS_Store files from being created on non-mac disks and mounted network folders. Keep in mind that doing this will remove custom folder views, and also prevent them from being set, but may help you troubleshoot the problem.

Run full system maintenance

Download *OnyX* and then reboot into Safe Mode before running the utility to perform maintenance tasks. Doing this will ensure minimal system resource usage during the maintenance routine, which may result in a more thorough cleaning.

Be sure to run permissions fixes (can be done with *Disk Utility* as well), and remove the boot, kernel, preferences, directory services, font, and other system and user caches. In addition, use these utilities to rebuild the launch services.

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com

MACFIXIT TIPS / Use Time Machine in supported programs

Apple's *Time Machine* backup system can be used in a variety of ways, though people seem to stick to only one method of using the system. Previously, we have covered *Time Machine's* use in restoring the system to a previous state either to revert back to a prior version of OS X, or to undo an app installation; however, you can also use *Time Machine* from within programs that support it.

The most commonly used app that interfaces with *Time Machine* is *Finder*, though it is easy to overlook this as a program just like any other. Generally, people use *Finder* to go to a location, invoke *Time Machine*, and then browse through snapshots at that location to see and restore backups.

Keep in mind that although *Finder* supports *Time Machine*, it is not the only application that does so. People have recently contacted us regarding ways to restore lost files, including emails and address book contacts where they had been digging through their user libraries, trying to find the proper files to restore.

Like *Finder*, both *Address Book* and *Mail* support and interface with *Time Machine*, so when you are in these apps you can invoke *Time Machine* just like you do in *Finder* to be able to find contacts and emails, restoring them to the application without having to use *Finder*.

Some of the *Time Machine* aware programs that Apple provides with OS X are *Finder, Mail, Address Book, iPhoto, GarageBand.*

Do you know of other apps that integrate with *Time Machine*? If so, post them in the comments. If you are unsure whether a program interfaces with *Time Machine*, just try invoking *Time Machine* with the application open. Those that do not interface will revert to showing the top-most *Finder* window when *Time Machine* activates, but those that do will show the application and data that can be restored.

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com

communicate via ports that you have already called them on. When you use *iChat* through a symmetric router, your initiating contact goes to the SNATMAP server, not the recipient. When the recipient tries to reply, using the information that the SNATMAP server provided, your router blocks the incoming packet because it is from a different address. The way this symmetry is implemented varies from router to router; some will block the connection completely and others suffer from reduced performance.

On some routers, you can unbind the Session Initiation Protocol (SIP) from the port that *iChat* uses, as way of getting around this. For example on a Speedtouch ST780, you can issue the telnet commands:

```
connection unbind application SIP port = 5060
save all
system reboot
```

But unbinding SIP on other modems can be trickier. Video chat is more complicated than it seems and a good working standard for communication across all operating systems and routers has yet to emerge.

"Don't go changing… MAC addresses!"

Q I was a little concerned when I read your snippet in *MF218* about changing a MAC address. This isn't a procedure to be taken lightly and I fear your article didn't really stress the importance of maintaining network integrity. The MAC address is the address that identifies a particular network interface on a given network. It's used by routers and switches to determine where devices are on the network and is the most fundamental address in all network communication. It's imperative that no two network cards with the same MAC address on the same logical LAN otherwise the network will fail and becomes difficult to troubleshoot. 'Spoofing' the MAC address on a corporate network could have devastating effects. So 'knocking' the MAC address up or down a digit could be all you need to have problems.

Ultimately, spoofing is a bit of a hack. It's better to configure software and hardware to use the manufacturer's MAC address than to spoof the address. Spoofing should only be considered as a last resort short-term measure until you have corrected the issue that brought about its 'requirement' in the first place.

Darren Wetherilt

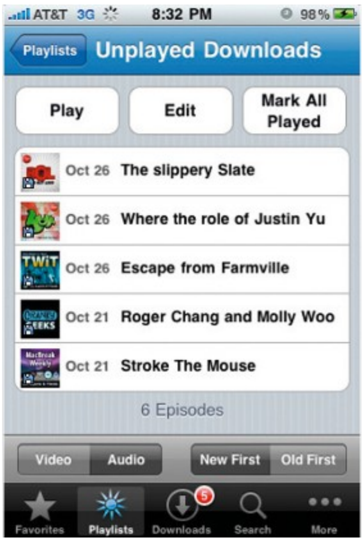
A I agree with all of that. And I did include some warning to this effect, within the constraints of available space. MAC spoofing can sometimes be a useful hack and I thought it was a handy thing to know how to do, in a pinch. I'd never advocate changing your MAC address willy-nilly. But then I'd never advocate doing anything willy-nilly.

"Can we have a podcast shortcut icon please?"

Q I like to listen to podcasts, including the *MacFormat* one. But it frustrates me there is no icon to put on my iPod for direct access.

Mark Beech

A Download the *RSS Player Podcast Client* from the App Store for 59p. This will alert you when your podcast subscriptions have a new episode available and supports large podcasts as well (*iTunes* is limited to 10Mb). But best of all, because it's a separate app, it has its own icon.



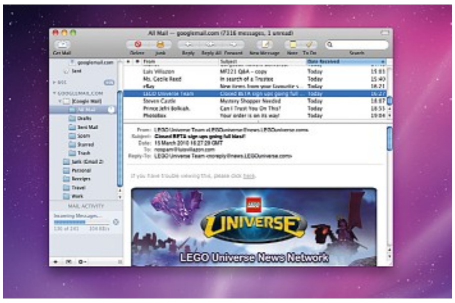
Oct 26 The slippery Slate
Oct 26 Where the role of Justin Yu
Oct 26 Escape from Farmville
Oct 21 Roger Chang and Molly Woo
Oct 21 Stroke The Mouse

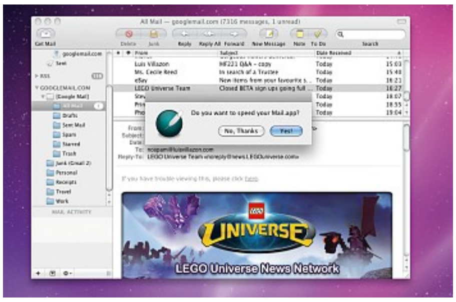
The RSS Podcast Client adds a lot of extra functionality over the default iTunes player and best of all it gets its own icon!

QUICK TIP

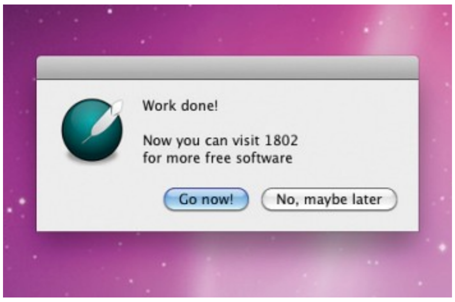
If you use *Safari* but occasionally go to *Firefox*, you can drag the icon next to the URL in *Firefox's* address bar into *Safari's* bookmark folder. Or drag *Firefox* tabs into *Safari*.

HOW TO / Rebuild Mail





Do you want to speed your Mail app?



Work done!

Now you can visit 1802 for more free software

01 Bloated

Mail keeps your email messages in separate files, stored in ~/Library/Mail/Mailboxes, instead of one huge database file. But *Mail* still uses a database to index these messages and if you have a lot of archived mail, this database can get bloated and slow.

02 Quite safe

Because the messages are stored separately, it's possible to delete the index database and rebuild it, without losing data. Do this yourself with simple *Terminal* commands, but *SpeedMail* (**www.1802.it/speedmail.php**) will do it for you.

03 Streamlined

Start by emptying your Trash folder in *Mail* and then run *SpeedMail*. It will tell you how much smaller the rebuilt database is and extra disk space is always nice, but the real benefit is that *Mail* should now start more quickly and feel more responsive.

QUICK TIP

If you accidentally close a window in *Safari*, you can get it back by looking through the history list. But there's an easier way. Click History > Reopen Last Closed Window.

"My first Mac, my first error. Please help!"

Q **I unboxed my new iMac last night and started updating and moving pics and music over without any problems, and started adding copies of my old software.**

Late in the process I started getting the 10810 error message, which won't allow me to do anything. I've Googled this and found that I'm not alone, but I can't find any definitive reason for this or any proven workarounds.

I've been using a 250GB external drive and I first noticed this happening after downloading the drivers for my Genius 9x12 Pensketch graphics tablet.

Matt Orton, Art Editor, PC Format

A 10810 is an error code for the OS X launch services component. It's the 'unknown error' catchall, which means the error handler has fallen through the bottom of its list of error conditions without generating a match. Since it's coming from launch services, we can conclude that it's a faulty driver. Start by removing any peripherals. If the drivers don't have an uninstall utility, you may need to poke around in /System/Library/Extensions. Or roll back with *Time Machine*, if you managed to get a snapshot before the tablet drivers were installed. The worst case scenario is you might need to reinstall OS X.

Once the Mac runs again without the peripherals, you can add it back in to make sure this was the cause. This is the only way to be sure you have identified the problem. And when you have you can either ask the developer for new drivers or switch to another device with better OS X support.

MACFIXIT TIPS / Spell-check and other useful functions when typing in OS X

OS X has some useful built-in correction and substitution functions that you can use when composing documents. These will work with *iWork* and *iLife*, as well as *TextEdit* and *Safari*, but other third-party programs also support these services.

Spell-check as you type

OS X offers a system-wide spell-checker that checks spelling as you type. For apps that support this, the settings for the spell-checker are usually available in the Edit menu under Spelling and Grammar. Misspelled words will be underlined and suggestions for correct spelling appear if you right-click the word.

There is also a grammar check; but it's a rather rudimentary implementation and does not catch all grammatical errors.

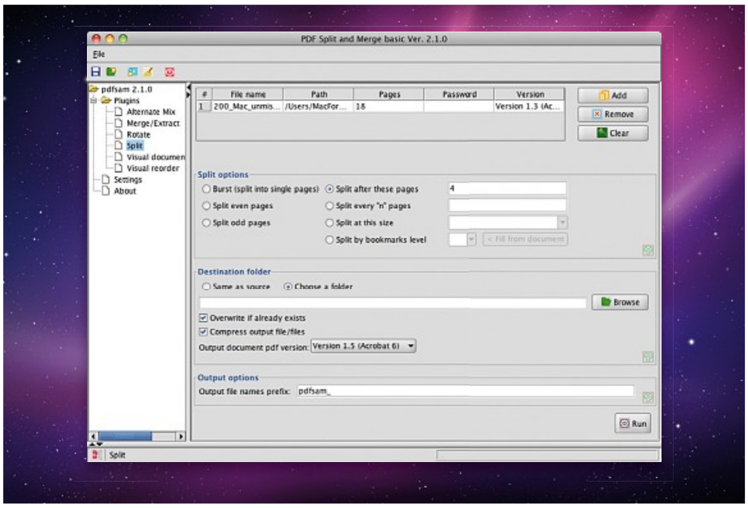
Character substitution

In OS X Snow Leopard, Apple introduced text substitution, which can be used for symbol or word substitution. Apple includes a number of default options, such as copyright and trademark symbols, but provides the option to add customized words and other substitutions of your choosing. To set this up, go to the Language & Text system preferences, and in the Text tab, use the plus button to add new substitution options. In order to use symbols, glyphs, or other nonstandard characters in the substitution, when you are entering the replacement text it might be useful to have the system's Character Viewer panel open (so you can insert desired symbols.

Autocompletion

Another composition aid in Snow Leopard is word suggestion. To invoke it, start typing and press esc. Apps that support this feature will display a list of words that start with the entered text, and then highlight a suggestion. Use arrows to select from the list, or add more characters, until your word appears, press ⇥ or ↩.

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com



#	File name	Path	Pages	Password	Version
1	200_Mac_unmis...	/Users/MacFor...	18		Version 1.3 (Ac...

Split options
○ Burst (split into single pages) ● Split after these pages 4
○ Split even pages ○ Split every "n" pages
○ Split odd pages ○ Split at this size
○ Split by bookmarks level < Fill from document

Destination folder
○ Same as source ● Choose a folder
☑ Overwrite if already exists
☑ Compress output file/files
Output document pdf version: Version 1.5 (Acrobat 6)

Output options
Output file names prefix: pdfsam_

It might not have a pretty interface but PDF Split and Merge does what it says on the tin.

"How can I easily split downloaded PDF files?"

Q **Because I have limited dexterity in my hands I have trouble turning the pages of book or magazine, so it is a real boon to me being able to get *MacFormat* as a PDF file. Before the full magazine became available I was able to select the articles that were of greatest interest to me. I know I can bookmark relevant pages or articles in *Preview*, and I am already getting quite a list! Can you tell me the best way to select and save particular articles. I can copy one page and then select 'New from clipboard' under the file menu, but if I select more than one page (sometimes two), *Preview* quits. This happens on my iMac and my MacBook Pro, both with OS 10.6.**

David Rotheram

A There is an open source utility called *PDF Split and Merge* available at http://preview.tinyurl.com/crx9v3, which I think should solve your problem. The wider question of why *Preview* is crashing is harder to solve. It seems to be a bug introduced in Snow Leopard and I can offer two workarounds that seem, if not to completely cure this bug, then at least reduce its frequency. Try having just one file open in *Preview* at a time. And if that doesn't help, when you open the Save dialog, try waiting for the file chooser to fully populate all the files in the current folder before you hit OK. The fact that both of these have been reported as possible fixes suggests that this is a memory allocation bug of some kind in *Preview*.

"I'm having trouble separating Wi-Fi networks"

Q **I was having problems with the signal strength of my wireless network, so I got back to your article in *MF212* ('Networking made easy'). I configured my Airport Extreme to 802.11n only (5GHz) with the option 'Use wide bands', and improved the signal to all bars on my MacBook Pro.**

But on page 34, you say: "...Or you can run both bands simultaneously, giving two independent networks. This is supported by Apple's Airport Extreme." I can't find any way to make this setting in the Airport Utility. Can you please give me an indication on how to set up these two independent networks on my Airport Extreme? I have a Mac Pro 8-core Xeon and a MacBook Pro Core 2 Duo, both with OSX 10.6.2.

Frank Melis, Belgium

A There isn't normally any need to do anything. Your AirPort Extreme defaults to transmitting and receiving on both the 2.4GHz and 5GHz wavelengths simultaneously. Any Macs that support multiband Wi-Fi (the newer 802.11n models) will pick whichever band offers the best reception. If you lock either or both Macs to one frequency, you will reduce the performance of your network. ●

On the forum

Help and advice from readers

Q When I add downloaded MP3 tracks into *iTunes* they sometimes get duplicated? How do I stop it?

Miqs Joined: 30 May 2008 Posts: 438 Location: Mid Bedfordshire

A I've found that if the directory I'm importing has an M3U file, *iTunes* will import the MP3 files twice – once when *iTunes* finds the MP3s itself and once again when going through the list in the M3U file.

AndersUk Joined: 11 Jul 2008 Posts: 57 Location: Bristol, UK

Q My friend has a PC and uses *Microsoft Office Outlook 12.0*. I sent him a JPG via an email using *Mail Version 4.2 (1077)*. He sees the picture in the email but can't find the file as it's not an attachment. He returned the email and I can both see the JPG in the email and as an attachment, though the JPG has been renamed to image001.jpg

Any idea what's going wrong here?

Art Robb Joined: 13 Jun 2009 Posts: 26 Location: Wiltshire

A Try sending as Plain Text format, instead of Rich Text (which is HTML) – there should be an option under the top menu (on my older version of *Mail* it's under the Format menu, called Make Plain Text).

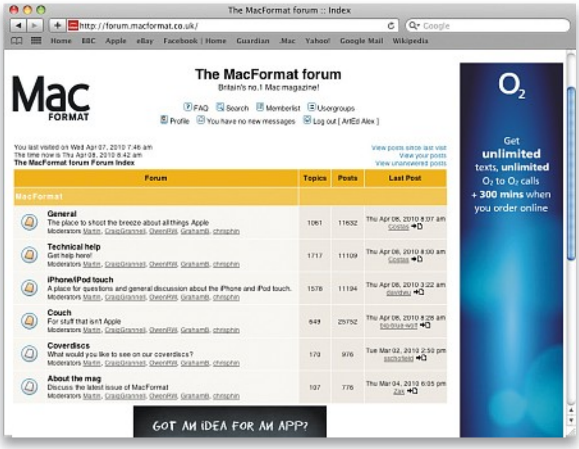
MacOS10 Joined: 20 Oct 2005 Posts: 2099 Location: Manchester, UK

Q I opened a folder of PDFs this morning to find the file icons had changed to *AppleWorks* icons. This only seems to happen to PDFs. Running disk first aid or restarting doesn't fix it.

axys Joined: 05 Feb 2008 Posts: 98

A Try downloading *OnyX* and run the options under the Automation tab – in particular the Reset Launch Services database option, which might possibly be to blame. Although it could be a cache thing, so make sure you tick all the 'Clear cache' options.

MacOS10 Joined: 20 Oct 2005 Posts: 2100 Location: Manchester, UK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Get unlimited texts, unlimited O2 to O2 calls + 300 mins when you order online
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Coverdiscs What would you like to see on our coverdiscs? Moderators Martin, CraigGrannell, OwenPW, GrahamB, chrisphin	170	976	Tue Mar 02, 2010 2:50 pm [illegible]
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"The iPad's big, beautiful screen and long-lasting battery make it the perfect showcase for a whole universe of compelling applications"

APPLE iPAD UNDER THE SPOTLIGHT P86

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Reviews

● HARDWARE ● SOFTWARE ● iPHONE APPS ● SHAREWARE ● GAMES

Ian Osborne
Reviews Editor

So, did it live up to the hype? Did Apple's iPad deserve the acres of magazine space and countless online stories published since its unveiling in January? Well, we've finally got our hands on one of the things, and we share our thoughts about it this very issue. Get the full lowdown on page 86.

In this month's group test, Chris Phin takes a look at some of the leading mono laser printers available for the Mac. Laser printers offer some distinct advantages over the more common inkjet machines, but there are definitely disadvantages too. Would a laser printer suit your needs, and if so, which should you buy? Turn to page 108 before making any decisions.

Elsewhere this month, we've got some great software applications on test. Chris really liked *Art Rage 3 Studio Pro*, but does it offer existing users enough to justify the asking price? Find out on page 97. Interested in brushing up on your German? Then *Transparent Complete Edition* may well help you in that department; and you might want to check out *Linkinus 2*, which could soon become the Mac's leading IRC client.

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Used in our Group Tests, MacFormat Winner indicates the product that we feel stands out.

This logo indicates there are either test versions or files associated with the review on the disc.

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>> PORTABLE COMPUTING DEVICE

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www.apple.com/uk

SPECIFICATIONS

Processor: 1GHz Apple A4 chip **Capacity:** 16GB, 32GB, or 64GB **Display:** 9.7-inch 1024x768 LED-backlit glossy Multi-Touch with IPS technology and oleophobic coating **Wireless:** 802.11n; Bluetooth 2.1 + EDR **Other:** digital compass; ambient light sensor; accelerometer; 30-pin dock connector; built-in speaker, mic, stereo headphone jack

PROS & CONS

- ⊕ Long battery life
- ⊕ Gorgeous screen
- ⊕ iPhone OS and all its apps
- ⊖ No Flash support
- ⊖ Screen gets smudgy
- ⊖ No camera

VERDICT

★★★★½

"The iPad's big, beautiful screen and long-lasting battery make it the perfect showcase for a universe of applications."

The best thing about the iPad's snappy, speedy, futuristic hardware is how it pretty much disappears once you start using it. The black bezel around the touchscreen doesn't just give you a place to grip your iPad without engaging the 9.7-inch touchscreen – it makes the apps jump right out at you. The screen is large enough that the apps become immersive, filling your field of view and almost making you forget you're holding the iPad in the first place.

The LED-backlit IPS display makes photos and especially video look amazing from nearly any angle. When three or four people gather around your iPad to check out the latest YouTube sensation, you won't have to bother asking, "Can you see it okay?" while finding an optimum angle for everyone – the colours stay bright up to 178 degrees from the centre. Glare, however, is a significant problem in sunlight and even occasionally indoors – as with a glossy-screened MacBook, we get freaked out by catching glimpses of our reflection on the screen while we're trying to watch *Lost*. (*Lost* is freaky enough.)

9:41 AM
iPad
Wednesday
27
Calendar
Contacts
Notes
Maps
Videos
YouTube
iTunes
App Store
Settings
Safari
Mail
Photos
iPod

What you can't help but be impressed by is the iPad's gorgeous touchscreen.

Sublime screen

As for touching the screen, it's no exaggeration to call it sublime. It's smooth under your fingers and *sooo* responsive. We never had trouble tapping precisely what we wanted to, which hasn't been our experience when using the iPhone and iPod touch – those smaller devices have a hard time, for example, guessing whether we're tapping the software keyboard's o button or the I. The iPad's extra space and improved accuracy make that a non-issue.
All that touching, though, leads to constant messy smudges gathering, even with the oleophobic coating on the glass. C'est la vie.

The 1.5-pound iPad can start to feel heavy when you're holding it for hours, but its weight isn't excessive, even compared with svelte ereaders like the 0.64-pound Kindle or the 0.76-pound Nook. And the battery life is astonishing, even better than Apple's claim of 10 hours of video – our first charge lasted 13.5 hours of constant app-using, and in our video-rundown test, it played for 11.5 hours straight, which is almost enough for a flight from London to San Francisco.

The built-in speaker is loud enough for a small group of people to watch a video together, and the mic worked well when we tested it by making VoIP calls with the free *Truphone* app. Better yet, Apple's inclusion of an orientation-lock switch, which keeps the display from swinging wildly between portrait and landscape modes as you turn the device, is a stroke of genius. When the orientation isn't locked, we love how you can turn the iPad a full 360 degrees and watch the display snap smoothly into each position – even though we were occasionally so distracted by the screen that we temporarily lost track of the inconspicuous Home button.

In the disappointment column? We would've loved to see a front-facing camera, and we'd bet money the second-gen iPad (as in, next year's) will have one. Today's iPad doesn't suffer from the lack of one; you just

> *"We never had trouble tapping precisely what we wanted to, which hasn't been our experience when using the iPhone or touch"*

QUICK LOOK / A short walk around the iPad

iPad
12:04
100%
Thursday
8
Calendar
Contacts
Notes
Maps
Videos
YouTube
iTunes
App Store
Settings
Safari
Mail
Photos
iPad

Wi-Fi support
The iPad comes with the new 802.11n wireless connectivity, which is of course backwards-compatible with older wireless networks.

Built-in apps
The iPad has *Calendar, Contacts, Notes, Maps, Videos, YouTube, Safari, Mail, Photos* and *iPod* installed by default.

Shelf
The glass shelf is reminiscent of the Dock in OS X Leopard and Snow Leopard. Apps can be added here with ease.

Orientation lock
This is a thoughtful addition and a useful feature, especially when reading iBooks – you don't want the screen flipping all over the shop.

Volume
Simple up and down buttons are found on the side of the iPad. It's a neat, convenient and typically Apple solution.

Dimensions
With a 9.56-inch height, 7.47-inch width and 0.5-inch depth, the iPad is well-sized. The Wi-Fi model weighs in a 1.5lbs.

have to cross "video chat" off the still-massive list of things it's good for. (Plus, third-party apps like *Camera for iPad*, and *Camera-A* and *Camera-B* let you use your iPhone as the lens and capture the image on your iPad, thanks to Bluetooth. Gimmicky but neat.)

But enough about the iPad itself, let's get to the things that make it special – the apps, starting with the built-in ones.

Mail and Contacts

The iPad's *Mail* app handles Microsoft Exchange, Gmail, Yahoo, MobileMe, AOL, and other IMAP and POP accounts, but it takes a frankly unacceptable five taps to switch from one account's Inbox to another (that's in portrait orientation; it's four taps in landscape). That's just insane. It also needs a media browser (the *iWork* apps have them) for adding photos to your messages without needing to exit *Mail*, then go to *Photos*, then copy some images, then reopen *Mail*, then paste them in.

But reading email is a pleasure, attachments open seamlessly, and actionable text like phone numbers and email addresses are helpfully hyperlinked for you – just tap one for an option to add the info to an existing contact or create a new one. When typing in landscape orientation, the keys are almost large enough for real touch-typing, but we still prefer to use a Bluetooth keyboard for longer missives.

Mail is a good start, but of the built-in apps, it's one of two that have a ways to go. Apple's *Contacts* app can sync to your Microsoft Exchange, MobileMe, or other LDAP account, and it has a handsome interface that looks like a real address book. The UI doesn't change between portrait and landscape orientation; it only turns and resizes a bit. Tapping the Share button opens a new email message, right within *Contacts*, with the selected contact's info attached as a VCF file. You can also assign photos to your contacts without leaving the *Contacts* app.

A search box and a strip of letters along the left side help you quickly jump to the contact you'd like to see. Clicking an email address launches *Mail* and addresses a new message, and clicking a street address launches the *Maps* app and drops a pin on the location in question. *Contacts*' clean design makes it a winner, but it'd be nice if we could look at maps or write emails without the quick app switch. Multitasking may have its day yet.

Calendar

Calendar is a gem. Its well-designed Day, Week, Month, and List views work in landscape and portrait orientation – List mode in landscape is our personal favourite. A timeline stretches along the bottom of the window, letting you jump around temporally with just a tap. Adding new events can be done with a minimum number of taps (as few as two), and while you can't drag

The Zinio app running on the iPad displaying an issue of MacFormat.

Read
Future_MacFormat_Normal April 2010
iPad
What makes the iPad tick?
The iPad is shaping up to be a powerful beast. Let's take a look at what tech Apple has squeezed into the sleek case...
Peripheral vision
The chips are down
Quality website
iPad
22
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26
27
28
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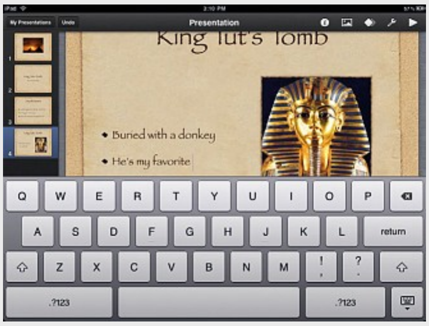
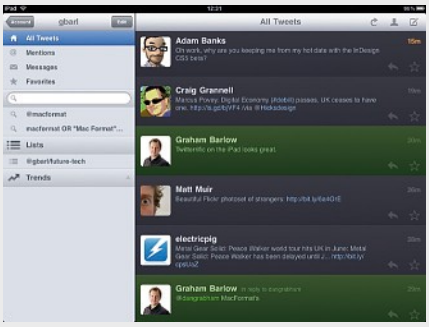
30
31

TOP 3 iPAD APPS / Three apps to install first



iWork suite

Apple's *iWork* productivity suite has been totally redesigned for the iPad. *Keynote*, *Pages*, and *Numbers* were available for the iPad from day one. These apps let you create documents that can be synced to your Macs and shared via **www.iWork.com**. An essential purchase.



Adam Banks
Oh work, why are you keeping me from my hot date with the InDesign CS5 beta?

Craig Grannell
Marcus Povey: Digital Economy (#debill) passes. UK ceases to have one. http://is.gd/bjVF4 /via @Hicksdesign

Graham Barlow
Twitterific on the iPad looks great

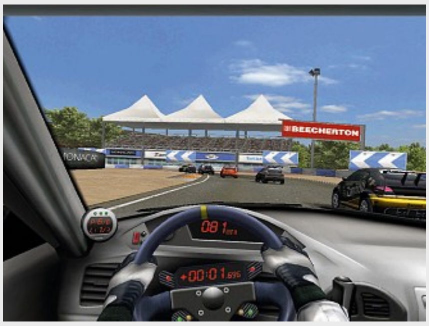
Matt Muir
Beautiful Flickr photoset of strangers: http://bit.ly/6a4OrE

electricpig
Metal Gear Solid: Peace Walker world tour hits UK in June: Metal Gear Solid: Peace Walker has been delayed until J... http://bit.ly/cpsUaZ

Graham Barlow in reply to dangrabham
@dangrabham MacFormat's

Twitterific

This free app is a great way to jump straight into Twitter on your iPad. No more squinting at a tiny iPhone screen – now you can tweet in comfort, taking full advantage of the larger screen size. There are plenty of other Twitter clients for the iPad also worth investigating.



Real Racing HD

You'll want to get starting with a game that really pushes your iPad to the max, and we'd recommend *Real Racing HD*. Turn your iPad like a steering wheel to navigate around the track. New touchscreen controls have been added to the iPad version of this iPhone classic.

existing events to new dates and times, you can get to the Edit screen in two taps as well.

Calendar supports CalDAV accounts and subscribed calendars, and we had no trouble syncing up our Exchange and MobileMe calendars over the air.

Photos

If you want to show off your iPad's amazingness and you haven't downloaded a single App Store offering, just fire up *Photos*. With support for *iPhoto*'s Faces and Places, *Photos* has tricks up its sleeve besides just making your images look nice. The Photos tab shows all your images in grid form, and the Albums and Events tabs sort them into stacks that you can expand with a quick 'reverse pinch' gesture. Faces sorts your photos based on who's in them – but the sorting and tagging is still done in iPhoto on your Mac, not on the iPad. The Places tab plots geotagged photos on a map that's incredibly fun to zoom in and out of, tapping the pins to see photos from that locale.

The limited slideshow options (choose music on/off and one of five transitions) and the ability to email one or more photos from right within the app make *Photos* the most polished and fun-to-use first-party app on the iPad.

> *"The ability to email one or more photos from right within the app makes Photos the most polished and fun first-party app on the iPad"*

Safari and Maps

So what if it doesn't support *Flash*? Surfing the web on the iPad is a hundred times better than using *Safari* on the iPhone, and it even tops the experience of a fully *Flash*-enabled internet on *Safari* for the Mac. Tapping, swiping, and pinching works incredibly well, making navigation virtually effortless. The bookmarks bar can be hidden or always on, and MobileMe users can sync bookmarks across other devices.

We had no trouble keeping up to nine pages open at once, although *Safari* does have to reload pages when you switch between them. H.264 videos on http://vimeo.com and HTML5 videos on YouTube's beta site also played flawlessly for us. And in general, being able to touch our

Landscape orientation makes your web browsing experience even more beautiful – just look at the MacFormat.co.uk site!

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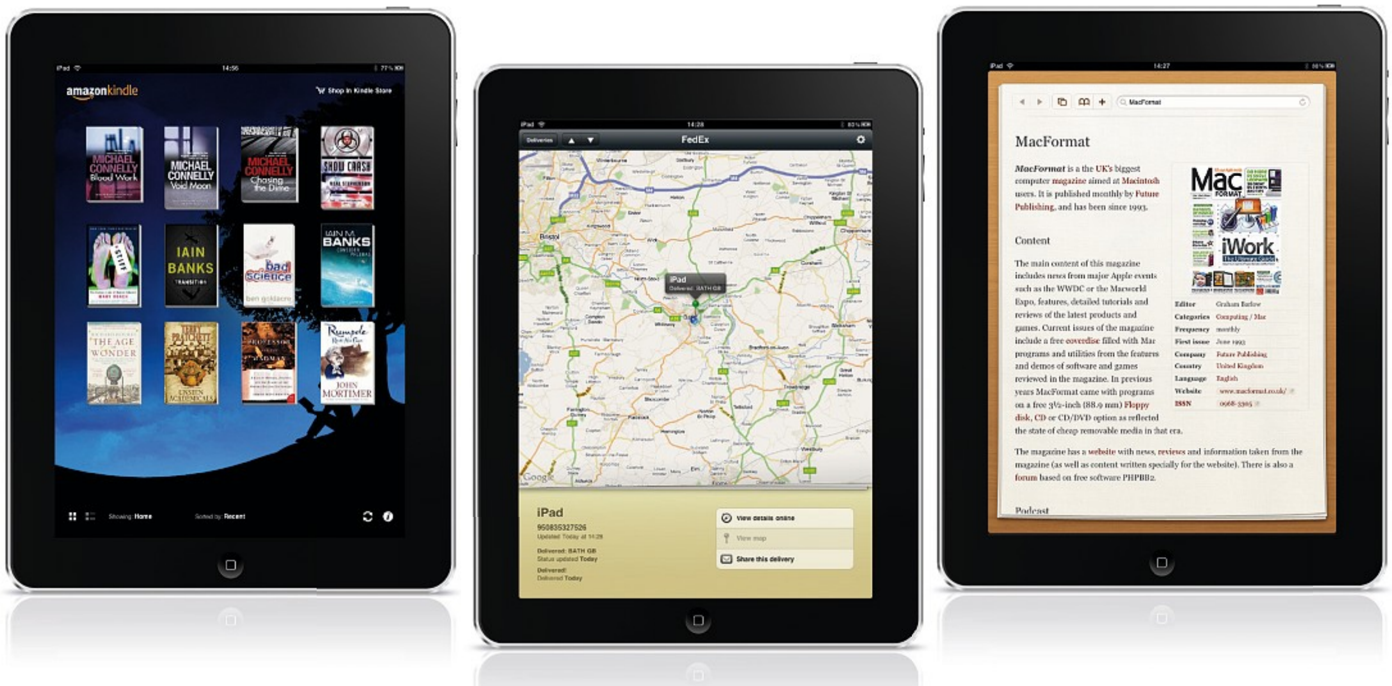

iPad
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Status updated Today
Delivered!
Delivered Today

MacFormat

MacFormat is a the UK's biggest computer magazine aimed at Macintosh users. It is published monthly by Future Publishing, and has been since 1993.

Content

The main content of this magazine includes news from major Apple events such as the WWDC or the Macworld Expo, features, detailed tutorials and reviews of the latest products and games. Current issues of the magazine include a free coverdisc filled with Mac programs and utilities from the features and demos of software and games reviewed in the magazine. In previous years MacFormat came with programs on a free 3½-inch (88.9 mm) Floppy disk, CD or CD/DVD option as reflected the state of cheap removable media in that era.

Editor	Graham Barlow
Categories	Computing / Mac
Frequency	monthly
First issue	June 1993
Company	Future Publishing
Country	United Kingdom
Language	English
Website	www.macformat.co.uk/
ISSN	0968-3305

The magazine has a website with news, reviews and information taken from the magazine (as well as content written specially for the website). There is also a forum based on free software PHPBB2.

Podcast

Here's the portrait orientation displaying a variety of apps that really look the part: iBooks, Maps and Pages.

favourite websites is so giddy-making that we could easily surf all day.

Maps hasn't changed significantly from its iPhone iteration, although the iPad's larger screen makes the maps easier to navigate without constant pinching and scrolling. Google Street View, which is accessed by dropping a pin on a city street and then clicking the little-man icon in the Info popup, is beautiful on the big screen. And the built-in compass reorients the map based on which way you're facing, just as it does on the iPhone 3GS.

More apps

Unlike on the iPhone, your videos are kept in a separate app from your *iTunes*. The *iPod* app fills the extra screen space with a column to the left, your albums on the right, and popup windows breaking down the tracks by album. *Videos* has simple navigation and works in portrait or landscape. We were effortlessly entertained. Grade A for both.

Notes is pretty much the same as the iPhone version, though it adds a list of your notes on the left when viewing in landscape orientation. *Notes* can still be emailed or synced back to your Mac via *iTunes*. And it's still kind of a snooze. Also the same as on the iPhone, YouTube's videos look great, and you can log in to your account to access your uploads, favourites list and subscriptions. Functional and un-flashy. Of course you also get the iTunes Store for songs, movies, TV shows, podcasts, audiobooks, and iTunes U content. It even supports movie rentals right to your iPad. It needs advanced search options, though.

The App Store is not so great – what a mess! The navigation is terrible, even worse than the App Store within *iTunes* on your Mac. It also lets you rate apps you don't own! And just browsing apps amounts to a soul-crushing experience – would it be that hard to add some sort of search filter? A total redesign is badly needed – but our hope in iPhone OS 4.0 bringing one is tenuous at best.

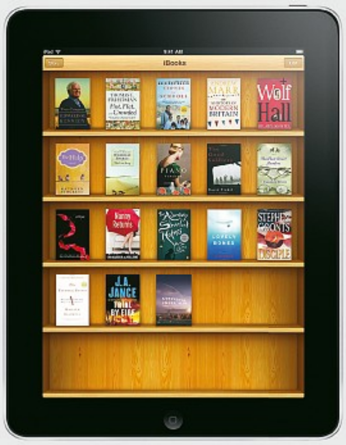
> *"Google Street View, which is accessed by dropping a pin on a city or street and clicking on a little icon, is beautiful on the big screen"*

It's impossible not to love the iPad, but if anything's going to elevate it from glorified high-tech toy to serious, must-have tool, it's the software. Also, the iPhone OS 4 update will offer even more features (see page 6 for details) .The bottom line is that this is an amazing device. If you don't believe us, head to your local Apple retailer and demo one. Touching is believing. **SO**, **PC**, **GB**

NEXT ISSUE
Look out for our review of the iPad Wi-Fi + 3G and iWork suite!

MISSING IN ACTION / iBooks

The iBookstore hasn't been launched in the UK yet, but we logged in using a US *iTunes* account to try it out. From the moment *iBooks* launches, its rich presentation captures you. The lovely wooden bookshelf contains one book, *Winnie-the-Pooh*, to get you started, so your first stop will likely be the iBookstore to snag some paid-for or free ebooks. We were briefly annoyed that you can't arrange books on the shelf with gaps to create your own groupings. The iPad's screen is our favourite part of reading iBooks. Despite pre-launch fears to the contrary, eyestrain was never an issue, and we appreciated being able to read in bed with the lights off – a marriage-saver if you sleep with someone who's not a fan of your bedside lamp. We did struggle with reading outside in bright sunlight, though – it could be done, but it was too squinty to be a pleasant experience.



>> PORTABLE HARD DRIVE

WD My Passport Studio 640GB

£142 Western Digital shows how all passport drives aren't the same

CONTACTS

Manufacturer: Western Digital
www.wdc.com/en

SPECIFICATIONS

Capacity: 640GB **Form factor:** 2.5-inch **Interfaces:** FireWire 800, USB 2.0 **Weight:** 0.18 kg **Dimensions:** 1.85x12.4x8.3cm

PROS & CONS

- + e-ink labelling
- + FireWire and USB connectivity
- + Useful management software
- − Micro USB is inconvenient

VERDICT

★★★½☆

"An elegant new take on the portable hard drive, and not too pricey either."

With so many portable hard drives to choose from it's not easy for a new release to stand out from the crowd, but Western Digital's My Passport Studio 640GB succeeds admirably with an interesting feature that's more than just a gimmick. The new drive, which is preformatted for Mac and also available in 320 and 500GB capacities, features a small display screen based on e-ink technology. You can customise it with your own 12-character label, and a graphic shows how much free space is available. Because it uses e-ink, it remains on even when your drive isn't powered.

The label is edited using WD's *SmartWare* drive management app, which also lets you password-protect the drive using 256-bit encryption and back up your files. It's easy to use, and accessible through a menu bar icon. A turbo driver for faster copying is also included. Connectiviy is through USB 2.0 and FireWire 800, with a bundled cable for a FireWire 400 port.

The drive label is an excellent idea, making great use of e-ink technology. The capacity gauge is handy too, but it disappears if you use the drive on a computer that hasn't got *SmartWare* installed, limiting its usefulness on a portable device. Also, the drive uses the emerging but currently uncommon Micro USB standard, which could prove inconvenient if you haven't got the bundled lead with you. Even so, it's great to see someone doing something different and inexpensive with the portable hard drive. **IO**

You can change the 12-character label - based on e-ink - to anything you like.

>> GAMING HEADPHONES

Creative WoW Wireless Headset

£150 For the Horde! Talk to your Warcraft guild in style – or in a squeaky voice

CONTACTS

Manufacturer: Creative Labs
www.creative.com

SPECIFICATIONS

Headphones: 20Hz-20Khz, 32 ohms impedence, THX certified, TrueSound **Mic:** Noise cancelling condenser, 50Hz-16Khz **Battery:** 8 hours **Connectivity:** Wireless USB

PROS & CONS

- + Excellent sound
- + Voice switching is fun…
- − …but very gimmicky
- − Cheap build quality

VERDICT

★★★★☆

"It performs brilliantly but feels a bit cheap, even without the gimmicks."

This isn't simply a headset, it's a *World of Warcraft* headset. When you wear it, your ears glow with pride as colour-shifting, pulsating LEDs illuminate your choice of logo. Donning it is like putting on that new helm straight from the Lich King's corpse and…

We'll stop there. Your tolerance for this headset's gimmicks will be entirely down to your love of the game. Either you'll be excited by the idea that you can buy replacement logos for the earpieces, or annoyed that you're expected to buy new ones, and that's your call. What we can say is that technically, these are good headphones. The build quality isn't the best, feeling distinctly plasticky, but they're extremely solid, and sound great. The microphone is locked in position and a little sensitive, and could do with a muffler to stop it picking up the air rushing past it, but there'll be no problem hearing or communicating with your guild, either here or in other games.

The big gimmick feature is that you can change your voice. It's standard pitch-shifting stuff, with names like 'Blood Elf Female' or 'Malganis' (oddly, there's no auto-echoing Death Knight) that's fun for a while, but not very convincing. Luckily, more subtle tweaks are also available, with the interface making it easy to tune up the EQ and THX settings to your liking, as well as saving presets and controlling the system with keystrokes. It may be expensive, but this is a sound headset indeed. **RC**

There are more logos coming soon. LAN parties beware…

The single tri-colour ink cartridge produces excellent results for your discs.
Photography by Joby Sessions

>>DISC DUPLICATOR

Microboards G3P-1000

£993 In a band? Got a showreel? Here's how to duplicate discs on an industrial scale

Six years have passed since the last consumer Mac was made that included an optical drive that wasn't capable of burning CDs, so you might think us crazy to suggest spending more than a basic MacBook Pro costs on a device that burns CDs. It does more, however. It's a single box that both burns and prints CDs and even dual-layer DVDs. (There's also a separate Blu-ray model.)

You load 50 printable discs into the hopper in the top, and then, when you send a job from the *PrintWrite* software, it will first burn, then print the disc, and send it to the output hopper at the front of the device. And if you ask for more than one copy of a disc, the G3 can be printing the first at the same time as the second is being burned. It took just over 40 minutes to create 10 printed, burned copies of an audio CD, and that included four and a half minutes to cache the copy to hard disk from a physical disc.

Print quality is excellent – it's an HP engine – and while not waterproof, discs can at least cope with small splashes. CDs are quite cheap to print at around 15p per disc.

It's not perfect, however. Mac OS X 10.6 isn't supported, though Microboards hopes to rectify that soon. Of more concern though is the quirkiness of the software and the setup. We had a few issues getting it sorted, and though it may not be the norm, it's nevertheless true that the *PrintWrite* software isn't as well-presented or easy to use as it could be. There's not even a basic app for laying out your labels – you'd have to create them in, and export them from, another program – and the results you see in the preview don't always match the printed output. The calibration routine was useless, and we ended up centring the output through guesswork; luckily it's a job you only need do once.

> *"It's a single box that both burns and prints CDs and even dual-layer DVDs; there's also a Blu-ray model"*

Nobody would argue that this is a mass-market product, and it's priced accordingly, but once you've bent it to your will, it's fast and efficient. We'd like to be able to have tested it hard for six months to get an idea of its robustness, but we're optimistic it would stand up to moderate use. **CP**

CONTACTS

Manufacturer: Microboards
www.microboards.com

SPECIFICATIONS

Resolution: 4800dpi **Projected throughput:** 25-100 discs/week **Burn speed:** 24x DVD, 48x CD **Requires:** Intel Mac, Mac OS X 10.5

PROS & CONS

- ⊕ Fast, unattended disc duplication
- ⊕ Excellent print quality
- ⊖ Inelegant software
- ⊖ A big investment

VERDICT

★★★½☆

"After some wrangling it worked smoothly, but the software could be better."

01
02
03
04
hField
Wi-Fire
Mac FORMAT This Week
ALTEC LANSING
Kensington
1GB
Kensington
BUFFALO
LinkStation

>> WI-FI EXTENDER

hField Technologies Wi-Fire

£40 www.hfield.com

01 Wi-Fire extends your Mac's wireless range 'by up to 1,000 feet', depending on local conditions. It's designed to sit on your notebook's display or a flatscreen monitor, but you can mount it however you like, as long as it remains within the range of its USB cable.

In our tests at *MacFormat's* office, our MacBook could see five local networks through AirPort, but using *Wi-Fire*, more than a dozen were visible. We reached our home network from further away too. Its software is easy to use, and is managed from a menu bar icon.

VERDICT

★★★½☆

"Wi-Fire looks inelegant atop your screen, but it's effective at what it does."

>> SPEAKER DOCK

COMPACT iMT320

£60 www.alteclansing.co.uk

02 Designed with portability in mind, the inMotion COMPACT iMT320 features a stand that folds over the speakers for transport. When packed away, it's not much bigger than a large paperback. It runs on four AA batteries or mains power, and has an AUX input as well as a dock, so will work with any audio device with a headphone socket.

The iMT320 has a warm and rich sound for such a small speaker set. Typically for Altec Lansing's mobile docks, it defines the shape of the sound much better than you'd expect.

VERDICT

★★★★½

"This speaker dock sports the sort of quality that belies its size and price."

>> PRESENTATION TOOL

Wireless Presenter

£45 www.kensington.com

03 Designed to turn the pages in *PowerPoint* and *Keynote* presentations, this gadget also includes a laser pointer to highlight details. Its 2.4GHz USB dongle slots into the rear of the unit when not in use, disengaging the laser to prevent accidental activation. This receiver also functions as a 1GB flash drive, so you can carry your projects around with you.

Wireless Presenter is a comfortable size, and its rubberised finish offers an excellent grip. The laser isn't much use on backlit screens, but it's fine for projectors.

VERDICT

★★★½☆

"A well designed and thoughtfully executed device, but a little too expensive."

>> 500GB MINI NAS

Buffalo LinkStation

£152 buffalo-technology.com

04 Buffalo's LinkStation Mini NAS uses a couple of 2.5-inch drives instead of the more common 3.5-inch models, giving the device a very small footprint and near-silent operation. It's packed with features: a built-in torrent client, *iTunes* integration and bundled backup software. You can connect another hard drive through its USB port to expand its storage capacity too.

Using a capability called Direct Copy, you can connect a camera or compatible USB device and transfer movies, music and images to your LinkStation with a single button-press.

VERDICT

★★★★☆

"A feature-packed and capable NAS drive in a compact and convenient form factor."

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>> CROSS-PLATFORM MULTI-USER DATABASE SOFTWARE

FileMaker Pro 11

Mac FORMAT Choice ★★★★★

£219 A cross-platform database app that's ideal for casual spreadsheet users

CONTACTS

Developer: FileMaker
www.filemaker.co.uk

REQUIREMENTS

OS: Mac OS X v10.5.7 (Mac OS X v10.6 recommended) **Processor:** PowerPC G4 867 MHz+ (Intel Mac recommended) **RAM:** 512MB (1GB recommended) **Other:** DVD drive

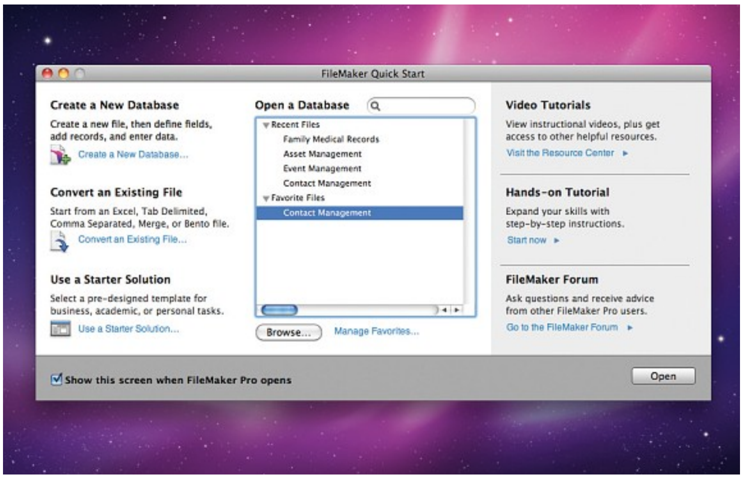
PROS & CONS

- + Spreadsheet-like ease of use
- + Built-in charts
- + Spotlight-like Quick Find
- + Improved developer workflow
- − Read-only recurring import
- − No image import from Bento

VERDICT

★★★★★

"Once again, the people at FileMaker have come up with enough new features to justify the upgrade."



FileMaker Quick Start

Create a New Database
Create a new file, then define fields, add records, and enter data.
Create a New Database…

Convert an Existing File
Start from an Excel, Tab Delimited, Comma Separated, Merge, or Bento file.
Convert an Existing File…

Use a Starter Solution
Select a pre-designed template for business, academic, or personal tasks.
Use a Starter Solution…

Open a Database
▾ Recent Files
Family Medical Records
Asset Management
Event Management
Contact Management
▾ Favorite Files
Contact Management

Video Tutorials
View instructional videos, plus get access to other helpful resources.
Visit the Resource Center ▸

Hands-on Tutorial
Expand your skills with step-by-step instructions.
Start now ▸

FileMaker Forum
Ask questions and receive advice from other FileMaker Pro users.
Go to the FileMaker Forum ▸

☑ Show this screen when FileMaker Pro opens

FileMaker Pro 11 comes with a Quick Start overview to get your database up and running.

For the last few years, the *FileMaker* application's biggest competitors have been the spreadsheet applications. Spreadsheets are simple to understand, 'good enough' for keeping lists of things, and great for 'doing graphs' of most persuasions.

For the casual user, *FileMaker Pro 11* may prove itself a spreadsheet killer. It can now create gorgeous 2D and 3D bar, line and pie charts with not a plug-in in sight: charts are straightforward to design and extremely easy to tweak, putting to rest a glaring omission from previous versions. But charts aside, it's the overriding 'ease of use' theme that's the real story here.

Spreadsheets beware

Prior to *FileMaker Pro 11*, you had to go about creating a database via the Define Database dialog box. With *11*, however, creating a new database is done in Table view, with controls for adding columns across the top and rows down the side – just like a spreadsheet. Except that here, columns are really database fields, and rows are database records. You can rename columns by double-clicking them, and specify their types and options from a drop-down menu.

Using the same drop-down menu, it's possible to add live grouping and sub-summaries to your table. Suppose you have a table of month, year, and sales data – you can sort your data by month and year, and an automatic subtotal row will be added to show a sales subtotal for every year, something that in *Excel* might require pivot tables.

Version 11 of *FileMaker Pro* offers two more prongs of attack on its spreadsheet rivals. First, there's Quick Find, which gives you a Spotlight-like search field in the toolbar that can be used to seek out all the indexed fields on the current layout. You can also customise Quick Find to look for a particular term and show matching records only in the fields you specify.

> *"FileMaker Pro 11 may be a spreadsheet killer. It can now create gorgeous 3D bar, line and pie charts with nary a plug-in in sight"*

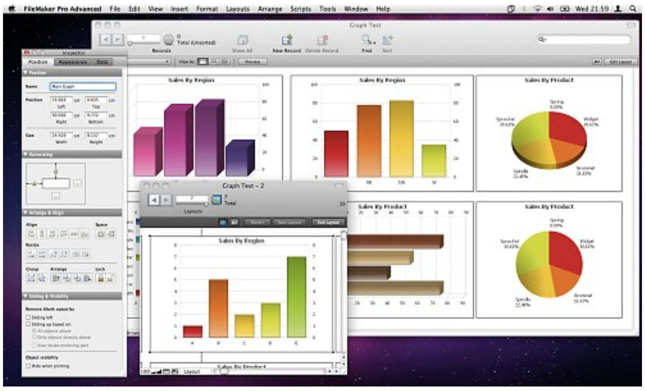
Second, there's Recurring Import – a way for you to specify a file (of the *Excel*, CSV or TAB variety) that should be imported every time your database is opened. (The one catch is that the imported data is read-only, but this is ideal for things like pricing data or exchange rates.)

The easy way

It could be argued that both of the above features could be achieved in version 10 via the use of scripting, but *FileMaker Pro 11* makes it almost childishly simple. Combined with the charting and table input features, casual users are more likely to reach for *FileMaker* than a spreadsheet when they just need to throw some data together quickly.

Version 11 also has plenty to offer the experienced *FileMaker* user. In Layout mode, an Inspector palette offers complete control over fields, portals, and tabs without you needing to resort to contextual menus. Object badges identify conditionally formatted elements on a layout, and those indexed fields are searchable via Quick Find. You can also select which fields Quick Find searches on a per-layout basis.

When adding buttons to a layout, you can create new scripts on the fly. (In Advanced mode you can do the same for script triggers and custom menus.) Layouts can now be grouped into folders, portals filtered via calculations, and script variables used in both find requests and displayed as merged fields. In terms of compatibility, the FP7 format is retained so that older clients can open version 11 files, but there's now an option to make files require 11. Given that lot, it's a winner. **RD**



The sheer number of ways you can visualise your data constitutes one of FileMaker's strong points.

>> DATA RECOVERY SOFTWARE

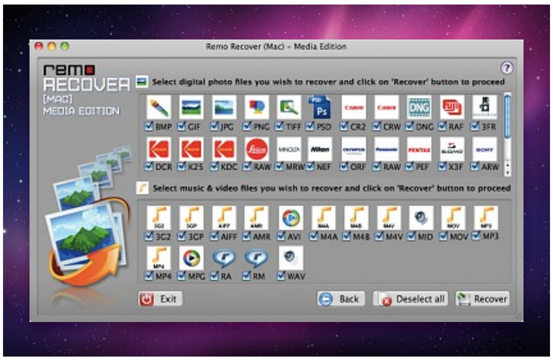
Remo Recover Pro Edition

£135 (Pro Edition) £46 (Media Edition) Deleted a file? Don't panic Remo's here to save the day

Even these days, with the proliferation of online 'cloud' backup services, not to mention software backup solutions such as *SuperDuper!* and *Time Machine*, people do still forget (or can't be bothered) to back up their data. So, when you've just deleted that folder full of irreplaceable pictures of the kids, what should you do? Well, first of all: don't write any more files to the volume from which you deleted the data, and second: try using an application such as Remo Software's recently released *Remo Recover* to retrieve your data.

There are two versions to choose from. The *Media Edition* will help you retrieve photos (including many types of raw file), as well as videos and music. Meanwhile the *Pro Edition*, as you might expect, aims to recover the aforementioned file types, as well as undeleting files from HFS+ and HFSX Journaled volumes.

To put *Remo Recover Pro* to the test, we assembled a varied collection of files: PDFs, *Microsoft Office* documents, various image files, including JPEGs, TIFFs and – just to be really sneaky – a couple of raw files in Fuji's RAF format rather than the more common Nikon NEF or Canon CRW. We then dropped our batch of files onto a number of hard disks (journaled and unjournaled) and USB flash drives, including one formatted as FAT32; then we deleted some batches and used a hexadecimal editing application to break the others. *Remo Recover* retrieved all our broken and deleted files without missing a single one. **TM**


Remo Recover (Mac) – Media Edition
remo RECOVER [MAC] MEDIA EDITION
Exit
Back
Deselect all
Recover

Select digital photo files you wish to recover and click on 'Recover' button to proceed

☑ BMP ☑ GIF ☑ JPG ☑ PNG ☑ TIFF ☑ PSD ☑ CR2 ☑ CRW ☑ DNG ☑ RAF ☑ 3FR
☑ DCR ☑ K25 ☑ KDC ☑ RAW ☑ MRW ☑ NEF ☑ ORF ☑ RAW ☑ PEF ☑ X3F ☑ ARW

Select music & video files you wish to recover and click on 'Recover' button to proceed

☑ 3G2 ☑ 3GP ☑ AIFF ☑ AMR ☑ AVI ☑ M4A ☑ M4B ☑ M4V ☑ MID ☑ MOV ☑ MP3
☑ MP4 ☑ MPG ☑ RA ☑ RM ☑ WAV

Remo Recover Media Edition recognises a whole range of file types.

CONTACTS

Developer: Remo Software
www.remosoftware.com

REQUIREMENTS

OS: Mac OS X 10.4.11 and later
RAM: 512MB (1GB recommended)
Hard disk space: 50MB

PROS & CONS

- ⊕ Retrieves less common formats
- ⊕ Straightforward user interface
- ⊕ Media recovery available
- ⊖ Comparatively expensive

VERDICT

★★★★½

"We're impressed. Remo Recover is a solid all-round performer."

>> MAC OS X CUSTOMISATION TOOL

TinkerTool 4.0

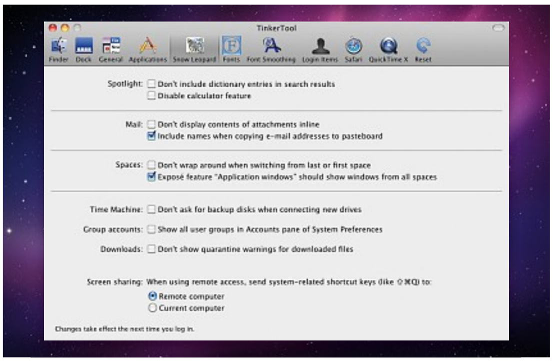
Mac FORMAT Choice ★★★★★

Free The premier tool for unlocking hidden Mac OS X settings gets a rewrite

There will no doubt be *Terminal* gurus out there horrified at the thought of getting under the bonnet of Mac OS X with anything other than the command line; for the rest of us there's *TinkerTool*. Now updated to version 4, this smart utility provides access to 'hidden' preferences, enabling you to fiddle with *Finder*, the Dock, *Safari*, appearance settings and more.

Despite this release being a complete rewrite, long-time users will find the interface familiar, and newcomers should find everything straightforward. The toolbar enables you to choose what you want to amend. Select a category and you're presented with various clearly labelled and logically arranged menus and checkboxes for adjusting settings, such as Dock animations, and the screenshot save location. In this latest release, Snow Leopard and *QuickTime X* are finally covered, including interface, concurrent recording and trimming options for OS X's built-in media player.

The app's user-friendly nature is evident throughout. Change settings for *Finder* and the Dock and you can restart either by clicking a button. Reverting to your Mac's pre-*Tinker Tool* settings or default state is a matter of clicking a button in the 'Reset' section. To that end, it's hard to find fault with *TinkerTool*. It would be useful if the app's Help provided some insight into the more esoteric settings, but that's an extremely minor niggle. Overall, *TinkerTool* is best in class – it's robust, usable, useful and free; tinkerers can't really ask for more. **CG**



Spotlight: ☐ Don't include dictionary entries in search results
☐ Disable calculator feature

Mail: ☐ Don't display contents of attachments inline
☑ Include names when copying e-mail addresses to pasteboard

Spaces: ☐ Don't wrap around when switching from last or first space
☑ Exposé feature "Application windows" should show windows from all spaces

Time Machine: ☐ Don't ask for backup disks when connecting new drives
Group accounts: ☐ Show all user groups in Accounts pane of System Preferences
Downloads: ☐ Don't show quarantine warnings for downloaded files

Screen sharing: When using remote access, send system-related shortcut keys (like ⇧⌘Q) to:
● Remote computer
○ Current computer

Changes take effect the next time you log in.

TinkerTool enables tinkering with Snow Leopard and QuickTime X.

CONTACTS

Developer: Marcel Bresink
http://snipurl.com/v6c38

REQUIREMENTS

OS: Mac OS X 10.4 or later

PROS & CONS

- ⊕ Extremely usable and robust
- ⊕ Excellent reset options
- ⊕ Snow Leopard settings too
- ⊖ Could use more documentation

VERDICT

★★★★★

"Remains the best all-in-one app for accessing hidden Mac OS X settings."

>> IRC CLIENT

Conceited Software Linkinus 2

$20 (£13) Could this exciting application become the Mac's leading IRC client?

CONTACTS

Developer: Conceited Software
www.conceitedsoftware.com

REQUIREMENTS

OS: OS X 10.5 or greater (Linkinus 1.3 available for OS X 10.4 users)
Processor: PowerPC or Intel
Hard disk: 20MB free space

PROS & CONS

- ⊕ Excellent user experience
- ⊕ Very feature-rich
- ⊕ Embedded media
- ⊖ One or two rough edges

VERDICT

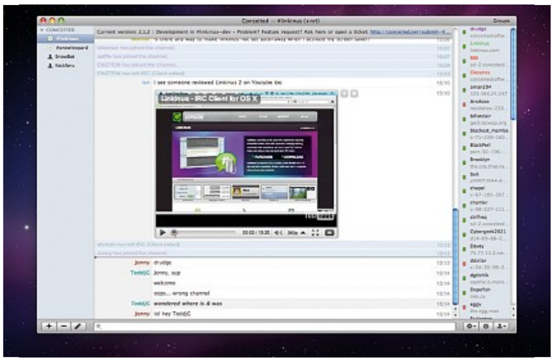
★★★★½

"Not quite perfection, but Linkinus takes IRCle's title as Mac's leading IRC client."

For years, *IRCle* was the Mac's best Internet Relay Chat (IRC) client, but these days it's showing its age. The Mac needs a new IRC champion, and despite a few rough edges that should be cleared up with its next update, *Linkinus 2* could now claim that title.

Linkinus 2 boasts over 100 new features. There's over 330 built-in networks to chat on, and you can, of course, add your own. When connecting to a large IRC network it cycles through its servers until it establishes a connection, an excellent touch that saves much frustration. It supports emoticons, embedded media and filters to ignore disruptive chatters. Recorded logs are intelligently organised for later review, and your Buddy List integrates with *Address Book* and *Mail*. You can display more than one chat channel in the main window, greying out the ones with which you're not currently interacting. It's up to 10 times faster than the last release too, and feels smooth in operation.

A few tweaks and polishes are needed before *Linkinus 2* can reach its full potential. Managing your on-screen identities is a little clunky, and its window space could be better used in a few areas. There's too much inefficient duplication of function, with buttons offering what can quite easily be accessed through contextual or pull-down menus. Even so, it's the Mac's strongest IRC client to date, combining *Colloquy*'s ease of use with *X-Chat Aqua*'s range of features. Unlike its rivals, *Linkinus* isn't free, but it's worth paying for. **IO**



Linkinus 2 benefits from a clean, accessible user interface.

>> LANGUAGE TUTOR

Transparent Language Premium (German)

£40 Learn to 'sprechen sie Deutsche' with the help of this new tutor application

CONTACTS

Developer: Focus Multimedia
www.focusmm.co.uk

REQUIREMENTS

OS: OS X 10.4.11 or higher

PROS & CONS

- ⊕ Excellent use of multimedia
- ⊕ Basics can be easily grasped
- ⊕ Plots your progress well
- ⊖ Won't learn German for you

VERDICT

★★★★☆

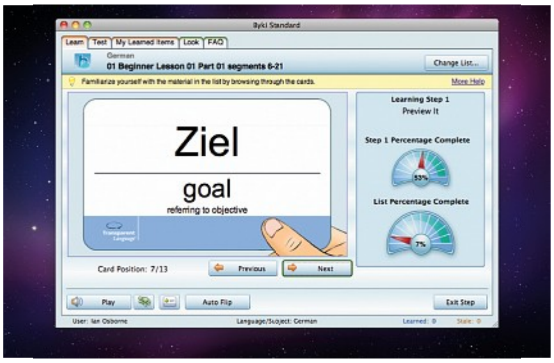
"A useful and well thought-out combination of lesson styles."

According to Transparent, to successfully learn a foreign language, you need to do two things. Master its critical vocabulary, and use the language in its natural context. This latest release in the company's language-tutoring series combines the Byki three-step system for the rapid learning of vocabulary with the Transparent Language System, a series of lessons that involve you in video conversations with native speakers.

The package makes good use of the Mac's multimedia capabilities; interactive flash cards get you through the basics, voice recording hones your pronunciation and videos let you see the characters with whom you're interacting. You can even transfer MP3s to your iPod or iPhone for learning on the move. The package is presented in an accessible on-screen book format, with your progress through the lessons noted as you go. Regular tests keep you on your toes.

It's surprising just how quickly you pick up the basics of a language. Even with no prior knowledge, the flashcard system makes it simple to learn its key words and phrases, and its video conversations are as close as you can get to experiencing the language in its natural environment without flying to Germany.

Don't expect it to do your learning for you. You still need to set aside regular time for lessons. As it says on the box, 'language fluency is the result of frequent practice and use'. But if you make the effort, *Transparent Language Premium (German)* is a well executed aid to learning. **IO**



German
01 Beginner Lesson 01 Part 01 segments 6-21

Familiarize yourself with the material in the list by browsing through the cards.

Ziel
goal
referring to objective

Learning Step 1
Preview It
Step 1 Percentage Complete 53%
List Percentage Complete 7%

Card Position: 7/13

User: Ian Osborne
Language/Subject: German
Learned: 0
Stale: 0

Flash cards and audio recordings help you with basic vocabulary.

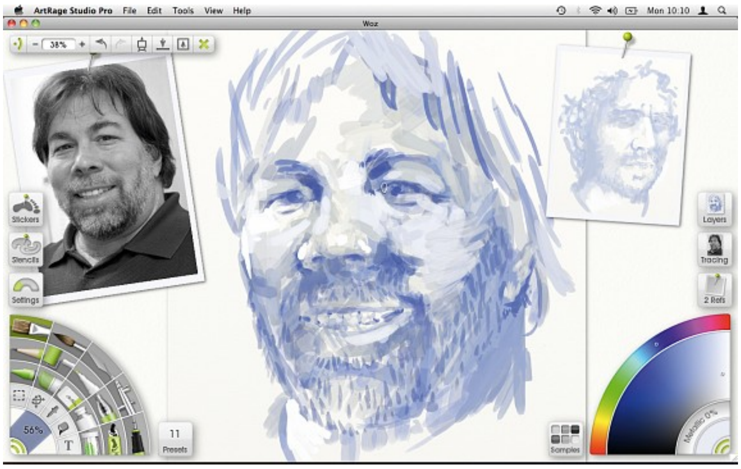
>> NATURAL MEDIA APPLICATION

Ambient Design ArtRage 3 Studio Pro

$80 (£56) Get your hands dirty with natural media without… getting your hands dirty

To create the illusion of paints, pens, chalks and more on your Mac, you used to have to sink hundreds of pounds into a copy of *Corel Painter*. No more, thanks to Ambient Design. We've long been fans of *ArtRage*. Version 2.5 of the 'standard' edition is still available, still awesome, and still only costs 20 bucks. Now, though, Ambient Design has created two new sister products, called *Studio* ($40) and *Studio Pro*, the version we're reviewing here.

Both products on the *Studio* line add a slew of new media types, some serious, some not so much. It's great to see a new watercolour engine and a basic, flat inking pen; the new Sticker Spray tool will doubtless be great for kids and hobbyists, though it's easy to see how it could be used to create garish works.



Use reference images and start tracing to get started, even with little artistic talent.

Precision performer?

The watercolour tool is good, though it's a far cry from the astonishing facsimile of the real-world behaviour of watercolour paint that *Painter* manages. It's also not especially responsive, and even with a little poking around – or, in fairness, reading of the manual – you can readily figure out how to change its behaviour, it's not especially intuitive. (Though that's true of all the media.)

> *"The new Sticker Spray tool will doubtless be great for kids and hobbyists, though it's easy to see how it could create garish works"*

There are lots of zany clip-arty presets in the Sticker Spray tool that are worth exploring, even for serious artists; the hair and fur presets, for example, can be a quick way to block in some detail. The *Pro* edition can even create Sticker Sheets.

While *ArtRage 2.5* is a fairly simple, painting-focused app – albeit one with pro-sounding features such as layers – the *Studio* range does try to be a bit more grown-up and capable. Both *Studio* and *Studio Pro* have a selection tool to let you grab and manipulate bits of your canvas, though *Pro*'s tools are more capable; where *Studio* can select only rectangular and elliptical areas, *Pro* gets polygon, freehand, and *Photoshop*-like magic wand and Quick Mask-style paint-on selections.

Both also have a text engine, though it's basic. Both also import *Photoshop* files with editable text, something *ArtRage 2.5* can't do. Indeed, the *Pro* version not only has a blur and colour adjust filter built in, but it can also use *Photoshop*-compatible filters – or at least it promises to; sadly, none of the components of onOne Software's *Plug-In Suite 5* is compatible, which is a shame as it would have been nice to use *PhotoFrame* – and there's no definitive list of supported plugins.

While *ArtRage 3 Studio Pro* only adds to what *ArtRage 2.5* does, we're less fond of it. It's partly the price, and partly that the brace of *Studio* apps don't seem to have decided what they are. They're pitching at a more professional audience, but they add a lot of unapologetically fun features that pros wouldn't touch with a bargepole. They're not especially stable, either, particularly when working with large, print-res files.

Hold your brushes

Our recommendation: unless you want the no-more-than-competent watercolour engine, buy *ArtRage 2.5*; it gets you a $15 discount against one of the *Studio* products anyway, so you can upgrade later. **CP**

CONTACTS

Developer: Ambient Design
www.artrage.com

REQUIREMENTS

OS: OS X 10.4 or later **Processor:** 1GHz G4 or better **RAM:** 512MB

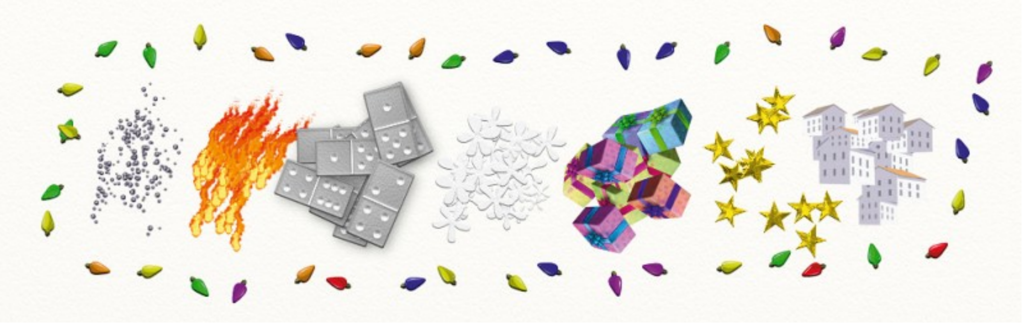
PROS & CONS

- ⊕ Friendly and fun
- ⊕ Good media simulation
- ⊕ Intelligent, useful interface
- ⊖ Needs a tablet for best results
- ⊖ A little slow and unstable
- ⊖ Watercolour only 'good'

VERDICT

★★★½☆

"ArtRage has grown up, but it has lost a little of its charm. Still almost a fifth of Painter's price, though!"



The new Sticker Spray tool would be fun for kids and useful for hobbyists, but it's still a bit frivolous.

» ON THE DISC
You'll find all these programs on the disc.

» WINDOW MANAGER

SizeUp 1.2.1

$13 (£9) Shift windows around your screen like nobody's business by prodding some keys

CONTACTS

Developer: Irradiated Software
irradiatedsoftware.com/sizeup/

REQUIREMENTS

OS: 10.5 or later

PROS & CONS

- + Fast, usable and stable
- + Plenty of options
- + User-definable shortcuts
- − Not for the mouse-oriented

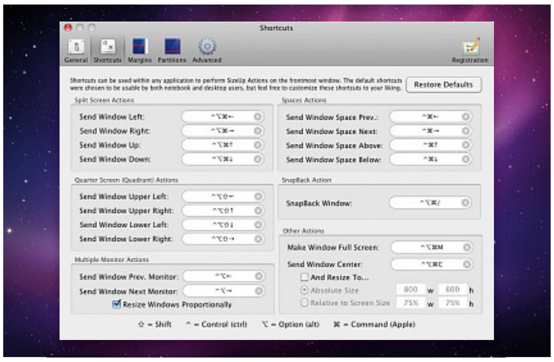
VERDICT

★★★★½

"The best window management app we've seen so far on the Mac."

Last month we reviewed Irradiated Software's other window management app, *Cinch*, which brings Windows 7's *Aero Snap* to the Mac. *SizeUp* is like *Cinch's* keyboard-oriented bigger brother. Like *Cinch*, it enables you to resize any window so it fills the entire screen or just one half, and you can subsequently easily snap it back to its original size. This time, though, keyboard shortcuts are used rather than the mouse. For example, by default, ctrl+⌥+⌘+M maximises a window.

SizeUp has a price tag that is double *Cinch's*, but as a result it offers many additional options. Split actions can be vertical (top/bottom) as well as horizontal (left/right), and you can send windows to quadrants, other displays and spaces, or to the centre of the screen. The last of those actions also offers an optional 'resize' (pixels or relative percentage) setting, and the app's preferences enable any action's keyboard shortcut to be redefined. If you're keen on fine-tuning system add-ons, then *SizeUp* also betters *Cinch* as it enables margins at screen edges and around windows to be set, along with partition sizes (which are 50% by default).



Shortcuts can be used within any application to perform SizeUp Actions on the frontmost window. The default shortcuts were chosen to be usable by both notebook and desktop users, but feel free to customize these shortcuts to your liking.

Split Screen Actions
Send Window Left: ^⌥⌘←
Send Window Right: ^⌥⌘→
Send Window Up: ^⌥⌘↑
Send Window Down: ^⌥⌘↓

Quarter Screen (Quadrant) Actions
Send Window Upper Left: ^⌥⇧←
Send Window Upper Right: ^⌥⇧↑
Send Window Lower Left: ^⌥⇧↓
Send Window Lower Right: ^⌥⇧→

Multiple Monitor Actions
Send Window Prev. Monitor: ^⌥←
Send Window Next Monitor: ^⌥→
☑ Resize Windows Proportionally

Spaces Actions
Send Window Space Prev.: ^⌘←
Send Window Space Next: ^⌘→
Send Window Space Above: ^⌘↑
Send Window Space Below: ^⌘↓

SnapBack Action
SnapBack Window: ^⌥⌘/

Other Actions
Make Window Full Screen: ^⌥⌘M
Send Window Center: ^⌥⌘C
☐ And Resize To...
● Absolute Size 800 w 600 h
○ Relative to Screen Size 75% w 75% h

⇧ = Shift ^ = Control (ctrl) ⌥ = Option (alt) ⌘ = Command (Apple)

SizeUp enables you to define shortcuts for 17 different window actions.

In use, *SizeUp* is extremely stable and works with all apps that don't do funky things with non-standard windows (yes that's you, *Adobe CS4* and *iPhoto*). It also behaves if you have *Cinch* running, although we would, avoid *Cinch* and pay twice the price for *SizeUp* to get five times the functionality – at least if you're a keyboard-oriented Mac user. **CG**

» SPACES ENHANCER

Hyperspaces 1.0.5

$12.95 (£9) Add handy features to Spaces

CONTACTS http://thecocoabots.com/hyperspaces

Like many aspects of Mac OS X, Spaces is a tad bare-bones. Streamlining usually improves the user experience, but it's easy to get 'lost' when spaces are essentially identical.

Hyperspaces provides options for enhancing Spaces, mostly for customising shortcuts and the visual appearance of your spaces. You can give each space a text label (although, there's no global font style setting) and unique desktop image to aid recognition. You can also define a shortcut for each space, doing away with Apple's restrictive modifier-plus-number-key combos. Elsewhere, shortcuts can be defined for switching in specific directions or adding/removing new rows and columns of spaces. There's also a menu-bar-based switcher that shows your spaces with their labels and backgrounds, although not the content within.

Although a touch memory hungry, *Hyperspaces* performs well on modest Mac hardware, and it's a good buy if you feel restricted by the spaces options Apple provides. However, if you're unsure about the original technology, *Hyperspaces* is extra polish and won't convert you. **CG**

VERDICT

★★★☆☆

"Does a good job enhancing imperfect Apple technology and aids usability."

» DISK USAGE VIEWER

GrandPerspective 1.3.1

Free Find hard-drive hogs with ease

CONTACTS http://grandperspectiv.sourceforge.net

As digital media collections grow, Mac hard drives fill up rapidly. If you're looking in worried fashion at a distinct lack of free space on your Mac, *GrandPerspective* is an essential download. The app provides a visual overview of the files and folders on your Mac, and while it's not the only app to do this (nor is it, by any stretch, the prettiest), it's the most usable. Post-indexing (a quick process – *GrandPerspective* took only three minutes to rifle through 200GB of data on our test Mac), you get a bunch of coloured blocks. Bigger rectangles represent larger files, and you can hover over one to see the associated item's name and file size. For more information, you can select a block, open *GrandPerspective's* drawer and view the item's details via the Focus tab. You can also open, reveal or delete any item, although the last of those options must first be activated in the app's preferences.

In use, *GrandPerspective* is fast and dependable, and we love it – even more so now that this latest release has added the option for you to drag folders or volumes to the Dock icon to start a scan. **CG**

VERDICT

★★★★☆

"Not the best-looking app in town, but it's efficient and effective."

SOLD OUT!

Issue 214
November 2009

The new iPod nano
App Store controversy
Get to grips with iTunes 9
Work smarter in OS X
On the disc
Trax OS, QuickApps 1,
KavaServices 3

Issue 215
December 2009

20 Mac problems sorted
iPhone GPS apps tested
Make a podcast jingle
Portable HD group test
On the disc
GrupaDupa 1.0.3, SWF
Encrypt 4, Twit Menulet 4

Issue 216
January 2010

Ultimate guide to iPhoto
Get fit with iPhone
Master Mac OS X file sharing
10 Apple milestones
On the disc
Advanced Link Manager,
New Star Soccer, Crayon Ball

Issue 217
February 2010

Sort photos using GPS
Investigating Apple TV 3.0
Solid-state drive group test
Customise Mac OS X
On the disc
AppDelete 2.2.3, Mac-HaBu
Bronze 10.3.2 and more

SOLD OUT!

Issue 218
March 2010

Never lose a file again!
Add other operating systems
Organise social networking
Top 10 iPhone apps
On the disc
Archive 5.5.1, Fresh 1.2.2,
NTFS for Mac 6.5 Express

Issue 219
April 2010

Say hello to iPad
40 ways to improve a Mac
Cut the cost of buying a Mac
Stylise your snaps
On the disc
Curator 1.3, Captain FTP,
Fun Booth 1 and more

Back issues

Want to order a back issue of MacFormat? Hurry – stock is limited!

You've only just missed...

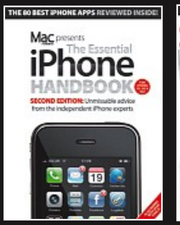
Issue 220 / May 2010

iWork – the ultimate guide
Get the best out of iPages, iWork and Numbers

Plus...
Do more in Snow Leopard
New Aperture 3 reviewed
Macworld expo: the verdict
What the iPad means for ebooks
Six finance applications on test
Civilization IV: Colonization reviewed

On the disc
iSoftPhone 2.7, R10Cipher 2,
Tidy Up! 1.4.11, top shareware and more

Why not also try these...



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>>STRATEGY

Hearts of Iron III

£30 The strategy wargame that embodies the very notion of the aphorism 'war is hell'

CONTACTS

Developer: Virtual Programming
www.deliver2mac.com
Publisher: Virtual Programming

REQUIREMENTS

OS: OS X 10.5.8 or higher
Processor: Any Intel CPU
Video: GeForce 7300, RadeonHD 2600/4850/4870 (GMA cards not supported, ATI X1600/X1900 not supported), 128MB VRAM **RAM:** 1GB RAM **Hard disk space:** 1.3GB
Other: Broadband connection for multiplayer and registration

PROS & CONS

- ⊕ A massive game
- ⊕ Enormous depth
- ⊕ AI-assisted tasks
- ⊕ Some help for novices
- ⊖ Progress is a slog
- ⊖ Looks ugly

VERDICT

★★★★☆

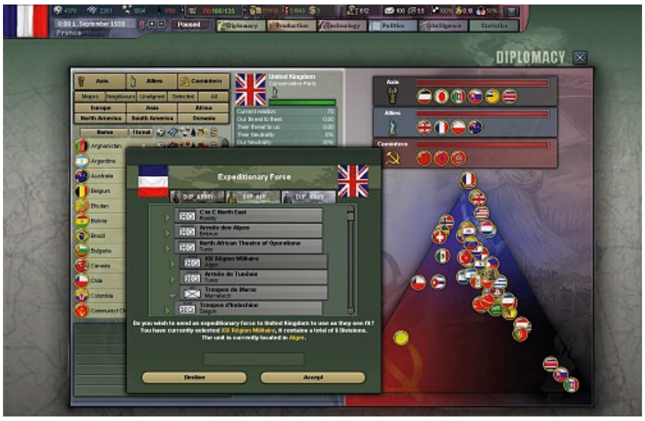
"It's the daddy of all strategy wargames, but only for players willing to take the pain."

Some strategy game developers are content simply to approximate war, employing simplistic models to emulate what might happen on the battlefield. And this process of simplification is a handy tool for enabling ordinary human brains to engage in war-like activities without really having to understand the real complexities of it. It's a bit like meteorologists' models for predicting long-term weather forecasts. It's interesting, but ultimately wrong and pointless.

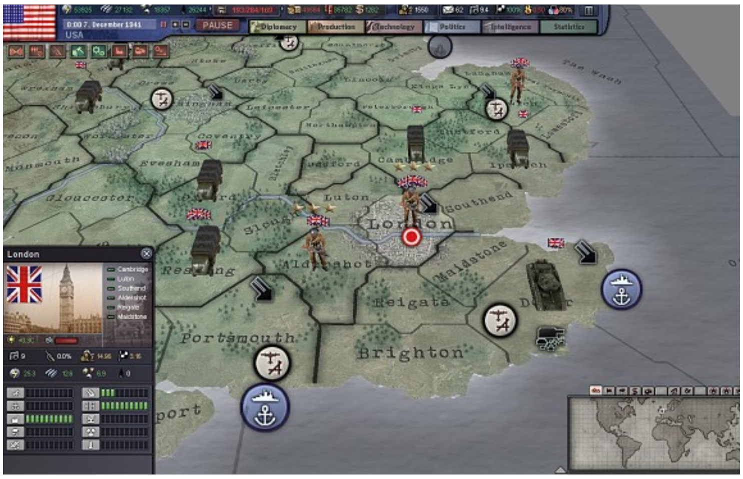
The *Hearts of Iron* series has no time for fair-weather generals or fly-by-night strategists. No, *Hearts of Iron III* is the real deal, an entire conflict, complete with air, sea and land-based warfare; political machinations, economic activity, technology, intelligence gathering… It's all in here. Only hardcore warmongers are invited to this party.

Fun for some

As the manual states, this is a game made by enthusiasts of World War II history for like-minded individuals, which explains the immense detail crammed into the experience. A typical game sees the player helping his chosen nation through the war years between 1936 and 1948, hoping at the very least to survive the conflict but preferably achieving world domination. Doing so, however, proves to be a long, taxing and often distressing journey.



Diplomacy is key to your survival and success. It isn't as fun as sabre-rattling and all-out warfare, mind.



Oh no, the conflict has reached the shores of dear old Blighty. Best put the kettle on…

You don't just play armchair general here; *HOI3* requires you to be an entire armchair government. During the course of a campaign you'll have to: manage your nation's economy (including handling debt and dealing with *War Exhaustion*); research new technology; establish supply routes to your troops; get involved in the machinations of government itself; conduct intelligence operations while simultaneously trying to smooth over the cracks using diplomacy; and take command of forces on land, sea and in the air. It's a mind-boggling array of tasks for which you'll need to develop an equally broad range of skills.

> *"The Hearts of Iron series has no time for fair-weather generals or fly-by-night strategists. No, Hearts of Iron III is the real deal"*

Friendly warfare

The good news (for ordinary mortals) is that this third game in the series is slightly, ever-so-slightly, friendlier to novice gamers. An online quick-start guide, helpful tutorials and more accommodating presentation in general all add up to make the experience a little less confusing than it might have been. In addition, certain tasks can be automated. The out-and-out masochist can choose to micromanage every single aspect of his campaign, but if necessary he can relinquish some control (leaving resource allocation, for example, to be handled through the computer's AI). This frees up time to concentrate on more appealing campaign aspects.

But despite the improvements, *Hearts of Iron III* remains an unfriendly brute of a game. Playing it is a slog; a satisfying slog, granted, but a slog nonetheless. And it looks extremely unappetising. But that's kind of the point. It's uncompromising.

Those players who enjoyed the previous games are urged to jump right in (if you haven't already done so). If you have some strategy gaming experience but you're new to the *HOI* franchise, this is also to be heartily recommended. If you're completely new to the whole strategy gaming front, though, you need to look elsewhere for your introduction to the genre (*Age of Empires III* is much friendlier to the novice). This game will not only throw you in at the deep end, but also stick its jackboot on your head so you can't come up for air. You have been warned. **AD**

>> POINT-AND-CLICK ADVENTURE

Ankh 3: Battle of the Gods

£30 The hapless Assil's adventures in ancient Egypt continue… but how exciting will they be?

Back in 2005, when the first chapter of the *Ankh* series appeared, point-and-click adventuring was a neglected genre that showed no signs of regaining the popularity it once had. As such we welcomed *Ankh* with open arms, enjoying it for the nostalgia value as much as anything else, and we were forgiving of its numerous flaws.

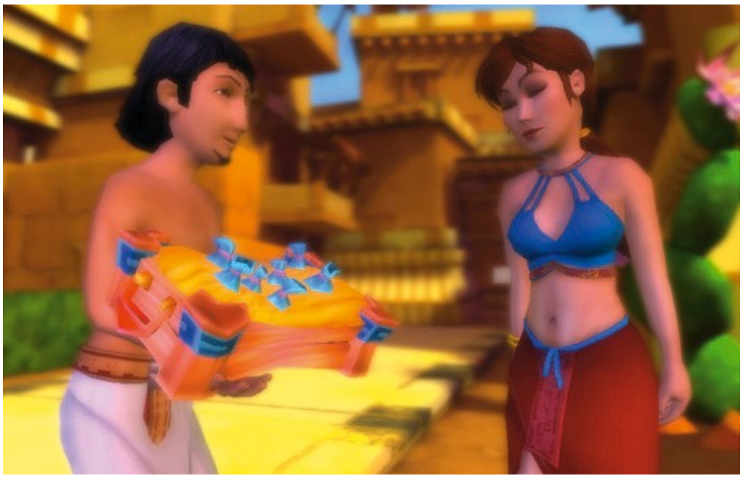
The landscape has changed now, though. Point-and-click adventures have experienced a remarkable renaissance thanks not only to numerous titles appearing on consoles like Nintendo's Wii and DS, but also more recently the release of various revamped classics on iPhone and iPod touch (*Beaneath a Steel Sky* and *Broken Sword* to name but two).

Not-so-eternal life

Unfortunately, these beautifully overhauled reissues serve partly to highlight what a pale imitation of past glories the *Ankh* series is. That said, the fact that Apple desktops are still lacking decent point-and-click adventures – and taking into account that *Ankh* has at least as many pros as cons – means this third chapter in the series is well worth a look.

> *"In Battle of the Gods, you get to play several different characters and, crucially, control Assill and Thara at the same time"*

After Assil's previous misfortunes (he was cursed by a mummy in the first game, and lost his girlfriend and his Ankh in the second) you'd think the gods would cut him some slack, but no. This time around, Assil, now reunited with his beloved Thara, awakes to find that his precious Ankh has been possessed by a god and his house is getting battered by fireballs falling from the sky. So begins a new adventure in which Assil and Thara must prevent Seth from winning the battle of the gods and commencing a reign of terror over all of Egypt. Not just another day at the bazaar, then.



Assil and Thara. Very much in love, but arguing constantly. They should get married.

Fundamentally, the gameplay here is unchanged and follows the classic point-and-click template. Players scout the scenery for objects, which they then use or combine in order to solve puzzles. Interactions with other characters give clues to the puzzles as well as developing the story. And, er, that's about it.

In *BOTG*, though, you get to play several different characters and, crucially, control Assill and Thara at the same time (or at least within the same environment). And it has to be said that these cooperative interactions between Assil and Thara work very well. Puzzles can be solved by swapping objects between inventories, assigning certain characters to do certain tasks, or even getting the pair to operate together simultaneously. In this way the gameplay feels a little richer than the traditional 'find key/take key/use key' formula used in previous games.

Ankh 3 also looks a little more sumptuous than its predecessors thanks not only to the improved design, but also to the broadening of the game's horizons and the inclusion of more exotic and elaborate locations than we've seen before.

Not-so-damning list

However, this being an *Ankh* game, our fondness for it is tempered by our annoyance at its persistent flaws. As with both the previous chapters, the cut-scenes are poorly scripted and executed, animations are a bit duff, some of the puzzles are annoyingly illogical and it's not as funny as it thinks it is. That might seem like a pretty damning list of problems, but even so, *Ankh* has always had a certain amateurish charm and somewhat elusive appeal and this release is no exception. It's no *Monkey Island*, but like an Egyptian archaeological dig, there's a glint of gold among the ruins. **AD**

CONTACTS

Developer: Deck 13

www.deliver2mac.com

Publisher: Virtual Programming

REQUIREMENTS

OS: Mac OS X 10.5.7 or better

Processor: 1.6 GHz Intel CPU

Video: GeForce7300 or better/ Radeon 2400HD or better with 128MB video memory **RAM:** 512MB

Hard disk space: 1.1GB

PROS & CONS

⊕ The much-loved story continues

⊕ Visually pleasing

⊕ Amusing at times

⊕ More stable than before

⊖ Clunky animation and dialogue

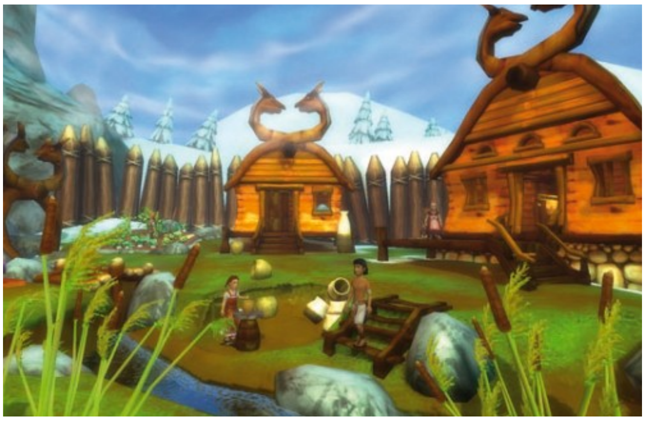
⊖ Illogical puzzles annoy

VERDICT

★★★½☆

"The third game in the Ankh series is slightly improved but ultimately, like the previous games, charmingly average."

Assil's third adventure takes him much further afield than ever before.



>iPHONE >iPAD >iPOD TOUCH

Apps

>>WELCOME

There are so many amazing apps and games being created for the iPhone OS that we've added another two pages to this section, plus a chart of our favourites!

5 ESSENTIAL APPS

This issue's favourites

Tweetie
£1.79 Powerful – if dull – Twitter client.

Reeder
£1.79 Google Reader client for RSS.

Convertbot
£1.19 Unit converter with bags of style.

Instapaper Pro
£2.99 Read marked articles offline.

National Rail
£4.99 Live train departure boards.

5 GREAT GAMES

Our top time-wasters

Angry Birds
59p Fire birds from a catapult.

Orba
59p A bit like Bejeweled, but better!

Ramp Champ
£1.19 Gorgeous skee ball game.

Flight Control
59p Land planes and more safely.

Zen Bound
£1.79 Beautiful puzzle experience.

>>WIKIPEDIA CLIENT

Articles

£1.79 Make Wikipedia pretty and more useful on your iPhone

Most of the negative reviews on the App Store make the point that you 'can do the same thing for free' with *Safari*. But even though you can indeed browse Wikipedia on your iPhone – even to the extent of using the built-in feature of adding a specific site shortcut to your Home screen – that's missing the point.

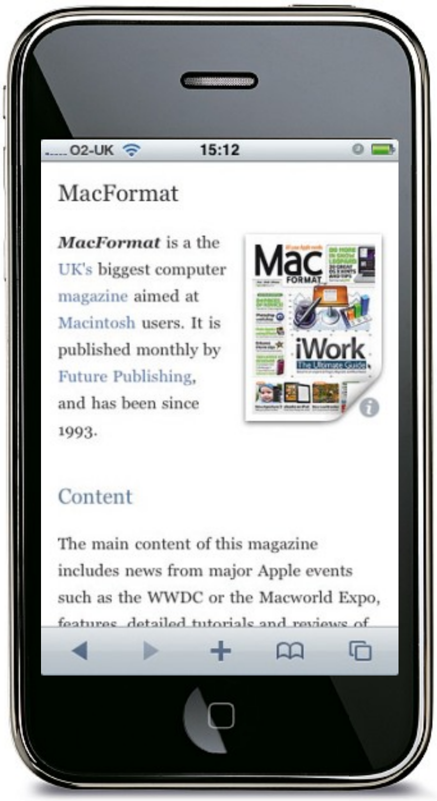
Articles takes everything that's great about *Safari* as a way to access Wikipedia on the go and improves on them all. For starters, everything is prettier. The developer has done a cracking job on the stylesheet for text and tables; everything looks great on the iPhone's small screen. However, it's still a sub-optimal way to view some complex documents, but it's cleaner and more attractive than *Safari*. The double-tap-and-scroll trick to skip between sections in long articles is a clever solution, but we'd like to see section headers pop up so it's easier to see where you are.

> *"For starters, everything is prettier. The developer has done a cracking job on the stylesheet for text and tables…"*

It's not just aesthetics that are improved; *Articles* also makes it easier to interact with content. We like the way that the 'vital statistics' summary box's many pages are hidden behind a primary image, with an 'i' under a page curl prompting you to tap.

Specific pages can be bookmarked in folders that you create, and recently viewed pages are cached so you can view them offline. And even finding articles is easier than with the web view, thanks to a Title/Content button and autocomplete. Plus it can geolocate you to suggest articles for things around you, which is great for travelling.

If you only dip into Wikipedia on iPhone once a month, then maybe this modest investment isn't worthwhile given how capable the mobile version of the site is, but we think it's a small price to pay. There's an iPad version coming out too… **CP**



MacFormat

MacFormat is a the UK's biggest computer magazine aimed at Macintosh users. It is published monthly by Future Publishing, and has been since 1993.

Content

The main content of this magazine includes news from major Apple events such as the WWDC or the Macworld Expo, features, detailed tutorials and reviews of

PROS & CONS

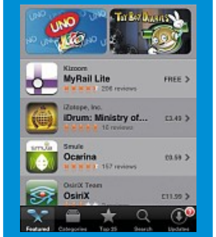
- ⊕ Beautiful design
- ⊕ Saves articles for offline
- ⊕ Shows nearby articles
- ⊖ Long-article nav needs work

VERDICT

★★★★½

"A jewel of an app; we can't wait to try the iPad version."

DOWNLOAD THESE APPS



Kizoom MyRail Lite FREE 206 reviews

iZotope, Inc. iDrum: Ministry of… £3.49 16 reviews

Smule Ocarina £0.59 157 reviews

OsiriX Team OsiriX £11.99

You can download these apps from the iTunes Store on your Mac or from the App Store on your iPhone or iPod touch.

>>PHOTO FUN

AgingBooth

59p See what you'll look like when you're old – if you're brave enough

PROS & CONS

- ⊕ Nicely polished interface
- ⊕ Realistic ageing effect
- ⊖ Same effect each time
- ⊖ A one-trick pony

VERDICT

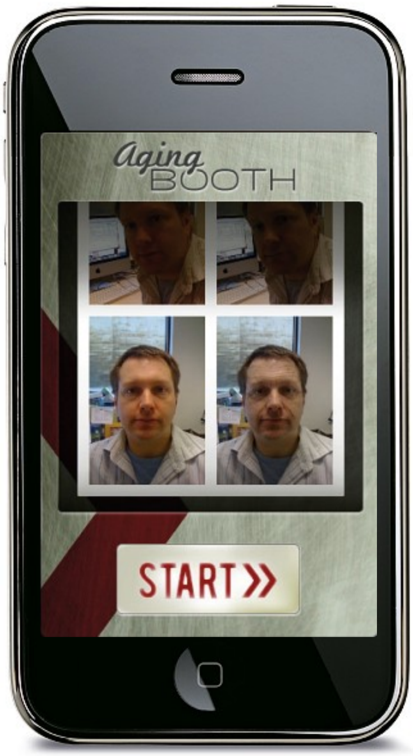
★★★★☆

"Good fun on a night out, but you might not like the results!"

This app does one, essentially frivolous thing, but does it well. Its job is to age your photo so you can take a peek at how you're going to look after the ravages of time have taken their toll. As such, this app is only for the brave, and while most males could be persuaded fairly easily to have a go, we couldn't find one member of the fairer sex who was willing to indulge.

You either take a photo with the app (perfect for a night out with friends) or choose a picture from your iPhone's photo gallery. Once the app has detected the face in the photo you manually adjust onscreen guides to fine-tune the position of the eyes and mouth, then let *AgingBooth* do its work. The result is a terrifying glimpse into a future where you are old. The results are convincing enough that, at first, you think it ran all sorts of clever calculations based on your facial structure to work out what you will actually look like when you're 'past it', but after a few tests on other people it soon becomes clear that this app's effects are the same, regardless of face shape, age or gender: everyone gets four furrows on their brow, two lines by their mouth to exaggerate jowls, sunken eyes and a sprinkling of liver spots for good luck.

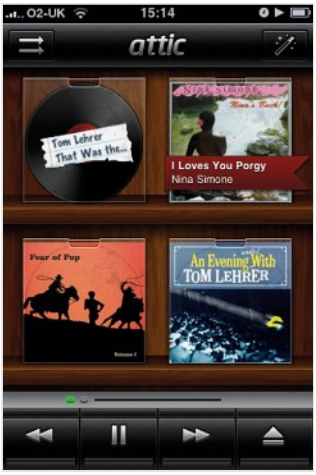
It's disappointing there's no aging calculations, but perhaps that's asking too much of a 59p app designed for a bit of fun. **GB**



>>MUSIC PLAYBACK

Attic

59p Fall in love with forgotten albums again



VERDICT

★★★☆☆

"A beautiful interface but not, perhaps, the best basic concept ever..."

This is a really beautiful little app, and we wish we could use it to control all of our music collection.

The fact that Apple would be unlikely to approve an app that duplicates the functionality of the built-in iPod app leads us to suspect that this one's schtick – a way to play albums you haven't listened to for a long time – is just a way to get round this. It's a shame, because the interface is really lovely.

The 'unlistened-to albums' idea, however, is flawed, and not just because you could almost do it with a Smart Playlist. The problem is that you may not have many unlistened-to complete albums on the relatively small capacities of an iPhone or iPod touch. **CP**

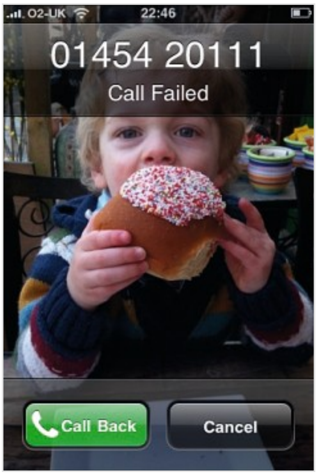
>>VISUAL DIALLER

Camera Dialer

59p Who you gonna call? Not this app...

The premise is simple: point your iPhone's camera at a phone number and if you hold it steady enough inside a green box then your iPhone will call that number.

The makers say it works best with black text on a white background, but it's also supposed to work on newspapers, Yellow Pages and adverts. The problem is, it doesn't. In a brightly lit room we couldn't get it to work with any media. It would incorrectly identify a number, then initiate the call before you could stop it. We did eventually get a correct reading of a business card outdoors, but it was a struggle. Maybe *Camera Dialer* works fine in the Californian sunshine, but in overcast Britain this app is a damp squib. **GB**



VERDICT

★½☆☆☆

"A good idea, but it needs to work better than it does for us to recommend it".

>> KIDS' ACTIVITY APP

Balloonimals

£1.19 Good old-fashioned party fun

PROS & CONS

- ⊕ Kids love balloons
- ⊕ A genius idea
- ⊖ Spittle on your iPhone
- ⊖ Gets repetitive

VERDICT

★★★★☆

"Great fun for toddlers but the appeal is short lived for older kids."

Blow into your iPhone's microphone to inflate an onscreen balloon. Once it's fully inflated, give it a shake to transform it into a balloon animal. Each shake adds another twist to until your creature's fully formed. Then you can play with it – each one knows a few amusing tricks – and once you're bored, pump it up until it pops and start again with a different colour. It's a simple idea, but kids love it. The drawback is that young ones find it tricky to blow into the microphone accurately, leaving you with a soggy iPhone. **GB**

>> KIDS' PUZZLE APP

Tozzle

£1.19 Toddler's favourite puzzle

The idea of *Tozzle* is to drag and drop shapes to their correct location in a given scene. Keep getting it wrong and a little arrow appears to guide you. Most scenes have interactive elements and some involve letters and numbers, so kids will learn as they play. *Tozzle* is essentially the same shape-matching idea over and over again, but as any parent familiar with the phrase "Again!" knows, kids love doing the same sort of thing repeatedly, and with 20 different scenes there's enough variety here to keep them happy for ages. **GB**

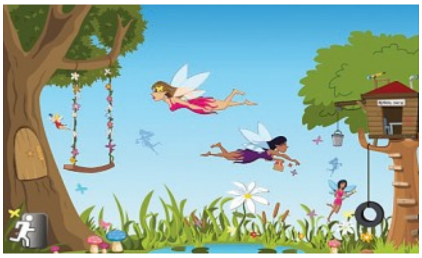
PROS & CONS

- ⊕ Plenty of puzzles
- ⊕ Charming graphics
- ⊕ It's educational
- ⊖ Too simple for older kids

VERDICT

★★★★☆

"The perfect way to keep little ones amused in the car."

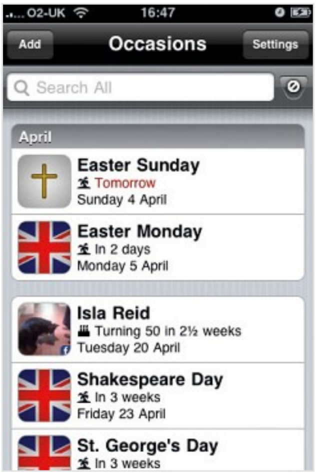


Drag and drop shapes to the correct location to complete each scene.

>> BIRTHDAY REMINDER

Occasions

59p Never forget a birthday again... in theory



April

Easter Sunday
Tomorrow
Sunday 4 April

Easter Monday
In 2 days
Monday 5 April

Isla Reid
Turning 50 in 2½ weeks
Tuesday 20 April

Shakespeare Day
In 3 weeks
Friday 23 April

St. George's Day
In 3 weeks

Many of us have trouble remembering the birthdays of family and friends, and *Occasions* promises to help. It integrates with Contacts, and automatically pulls in dates from the birthdays field. Even better, you can sign into your Facebook account and pull in the information from it too, as well as adding optional secular and religious dates; best of all, if the birthdays have years associated with them, *Occasions* will tell you, for example, that your mum is turning 54 in five and a half weeks.

It does push notifications too, though we'd like a better way of telling *Occasions* to give us, say, a week's warning so we had time to buy a present. And we'd like specific warning about 'big' birthdays. **CP**

VERDICT

★★★☆☆

"It's a bit complicated and needs a bit of polish, but it's good, and it's cheap."

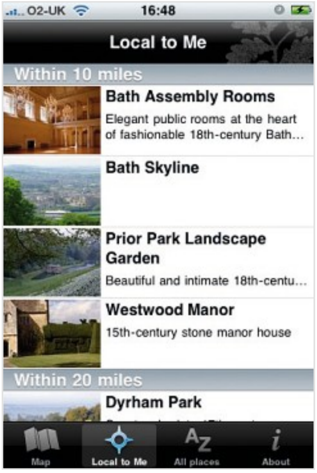
>> ATTRACTION FINDER

National Trust

£FREE Looking for a day out with the family?

With 200 houses and almost 1,000 square miles of land, many people can find a National Trust property nearby for a day out. This app helps you discover them, either by browsing a map – that will locate you and show you properties as pins on a Google map – or by listing properties in order of proximity. It can ping you out to the *Maps* app proper to get directions, and you can browse all properties as well, and get visiting information for them all.

It's handy and well put together, but there's nothing in the app for National Trust members; we'd like to have been able to store our membership details in the app so we didn't have to remember to take our cards. **CP**



Within 10 miles

Bath Assembly Rooms
Elegant public rooms at the heart of fashionable 18th-century Bath...

Bath Skyline

Prior Park Landscape Garden
Beautiful and intimate 18th-centu...

Westwood Manor
15th-century stone manor house

Within 20 miles

Dyrham Park

VERDICT

★★★★☆

"It doesn't cover Scotland, and there's nothing for members, but it's a good app."

>> ROLE-PLAYING GAME

Final Fantasy

Mac FORMAT Choice ★★★★★

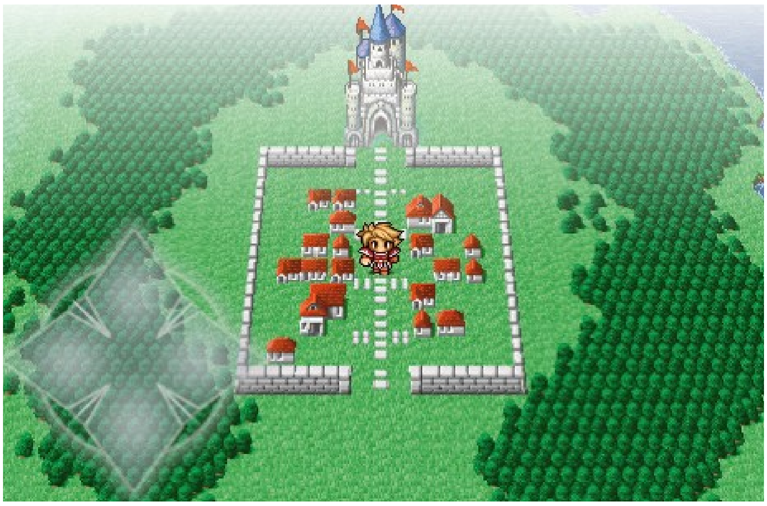
£5.49 The seed from which the mighty Final Fantasy franchise grew

Less experienced gamers who are familiar only with the epic 3D cinematic splendour of recent *Final Fantasy* releases will find the original game a bit flat and crude by today's standards. But at the time of its release back in 1987, *Final Fantasy* was cutting-edge stuff. It wasn't until the release of *Final Fantasy VII* that the franchise achieved mainstream success and this first game was initially a Japan-only release, making the iPhone version particularly pleasing to see.

Final Fantasy follows a party of four adventurers, all of whom seem to figure in a great prophecy and who, according to the ancient rules of role-playing games, must save the world from a great threat. The action takes place via three interfaces. There's a close-up map used for exploring villages, castles, dungeons and so on. The world map provides an expanded view from where the party can travel between locations and randomly get involved in battles. And when this happens, the action changes to the battle window, at which point, individual party members can be allocated tasks such as attack, use magic, defend, run away or even perform healing and curing spells.

It's a classic setup, and one that's extremely entertaining. The single irksome aspect is that, as in the original 1987 release, there's way too much random battling required to level up between quests. Despite this, it's a fun adventure, and an important game.

We can only pray that *FFVII* also makes it's way to the iPhone. If we're really lucky, *Final Fantasy XIV Online* will come to the Mac as well. **AD**



Use the overhead map to check out settlements, towns and cities that you come across in your travels.

PROS & CONS

- ⊕ A great update
- ⊕ A classic adventure
- ⊖ Annoying random battles
- ⊖ A bit pricey

VERDICT

★★★★★

"A great excuse to discover the Final Fantasy phenomenon."

>> FARMING GAME

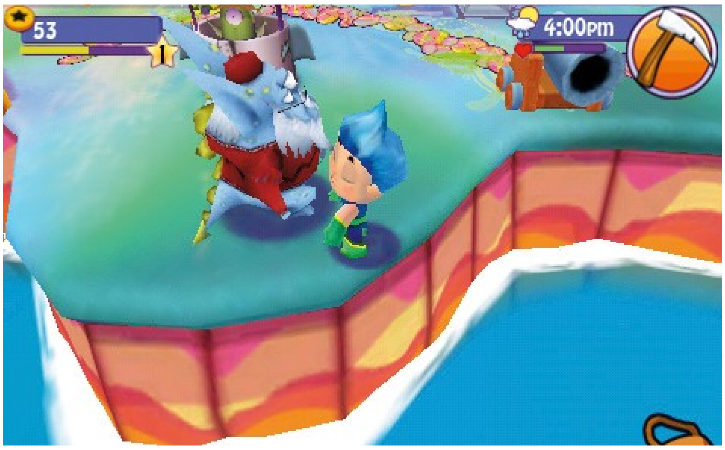
Astro Ranch

Mac FORMAT Choice ★★★★★

£2.99 Experience some colourful alien agriculture

Farming games such as *Harvest Moon* and *Animal Crossing* aren't everyone's bucket of swill; in fact they're normally dismissed as being timewasters. But most gamers, if pushed, will admit they find them a guilty pleasure. *Astro Ranch* could easily have been a cheap knock-off, but far from it. This is a fully fledged and rather excellent farming RPG in its own right.

After crash-landing on a Jetsons-style planet, you must build up a plot of land by growing crops and rearing livestock. Along the way you'll meet characters, perform tasks, play minigames, collect stuff and share experiences with others online. It's gentle, non-threatening and more-ish. **AD**



Life on the Astro Ranch won't set the world on fire, unless the landscape catches alight!

PROS & CONS

- ⊕ Looks great
- ⊕ Fun story
- ⊕ Loads to discover
- ⊖ Not enough training

VERDICT

★★★★★

"A superbly playable farming RPG with a safe and amiable off-world twist."

>>ARCADE

Alpine Crawler World

59p Time to veer off-course with your iPhone and this great little adventure…

PROS & CONS

- ⊕ Superbly designed courses
- ⊕ You can flip your truck
- ⊕ Time trial modes
- ⊖ More courses please

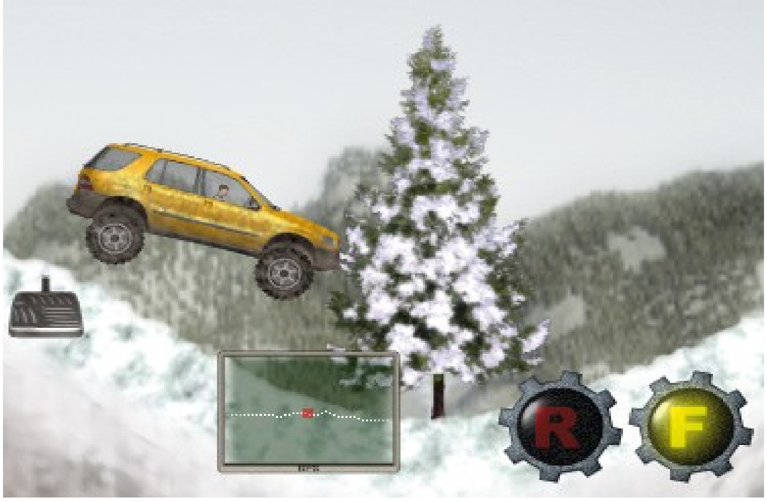
VERDICT

★★★★☆

“Now we can all drive off-road and use our iPhone at the same time!”

Viewed side-on, *Alpine Crawler World* sees you attempt to drive your truck from the start to the finish of a mountainous course within a time limit and without trashing your vehicle on the way. It's possible to perform some impressive flips but this can lead to disaster, the real test being to use the accelerator and brake in order to hug the bumps and dips as efficiently as possible.

There are 30 courses across three regions (Alps, Kentucky and Sweden), bonuses to be earned and time-trial challenges. In the wrong hands it could be intensely annoying, but the courses here are expertly designed to test a variety of driving styles. **AD**



Test your driving skills on a range of off-road courses and even race against the clock on the Alpines!

>>SHOOTER

Tilt to Live

59p Another reason to love indie coders

PROS & CONS

- ⊕ Beautifully designed
- ⊕ Pin-sharp controls
- ⊖ Repetitive gameplay
- ⊖ Frustratingly hard

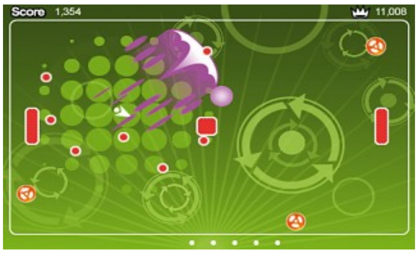
VERDICT

★★★★☆

“Perfect use of the accelerometer. This is a near-perfect little shooter.”

Tilt to Live, coded by two talented developers known as One Man Left, is a near-perfect example of a simple idea, executed beautifully. You move your ship around the play area by tilting the iPhone (the controls here are phenomenally accurate and responsive) in order to avoid red dots (enemies) and pick up weapons in order to destroy those enemies. The further you progress in the game, the more insane the action becomes, and there some entertaining achievements to be had.

If that's not a turn-off, *Tilt to Live* should be right near the top of your shopping list. It's a blinder. **AD**



Unlocking new and more powerful weapons are one good reason to keep playing.

>>SHOOTER

Vector Tanks

£1.19 An update of an updated old classic

Vector Tanks, an iPhone homage to 80s Atari arcade classic *Battlezone*, has been further beefed up with the release of this *Extreme!* version, boasting more firepower on both sides of the battle. The player now has rail-guns, rockets and nukes at his disposal, while the two tanks of the original are joined by a new tank (the 'Bushnell' is a nice touch) that sports a laser cannon, land mines and even helicopters.

The aim is simply to get a high score by shooting as many enemies as possible. You may also get post-traumatic stress in the process (but in a good way). **AD**

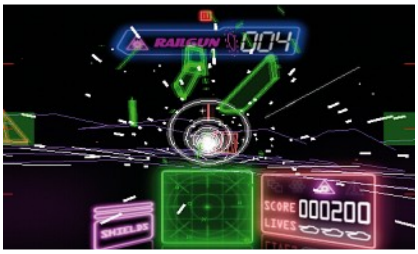
PROS & CONS

- ⊕ An old idea updated
- ⊕ Interesting visuals
- ⊕ Extremely challenging
- ⊖ Slightly awkward controls

VERDICT

★★★★★

“Vector Tanks Extreme! pumps the old Battlezone formula up a notch.”



Vector Tanks Extreme! is a fitting homage to the game everyone played to death.

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All the devices in this test did a fair job when it came to printing, so which one came out on top and why?
Photography by Joby Sessions

Mono laser printers

Who needs inkjets? **Christopher Phin** discovers why these old-school devices still have a good deal to give…

Despite advances made by the inkjet printer industry, every small office or home office needs a laser printer; they're fast, reliable, cheap to run and print text that trounces even the best inkjet.

Here, we invited manufacturers to submit one of their A4 mono (black-on-white prints only) laser models for testing. Assuming that most of our readers would look to use a mono laser in a small workgroup environment, we stipulated that it had to be network-ready. Brownie points would be awarded for models that featured Wi-Fi as well as Ethernet, though only Brother supplied one that did.

We also made sure the printers were capable of printing on both sides of the paper automatically, a feature called duplex; this is resource-efficient and, we think, an essential feature. And of course, all the printers had to be Mac-compatible. All worked with the supplied drivers under Snow Leopard; though, as cautioned by Xerox, we got a better experience under 10.6 with its model when we downloaded newer drivers.

> *"Every small or home office needs a laser printer; they're fast, reliable, cheap to run and trounce inkjets"*

One manufacturer is missing. The sample that was sent by Epson was damaged in transit. The company wasn't able to get a replacement to us in time for our testing.

You may noticed that our tests have shrunk. Be assured, the same testing is done with the just as many products, but we've just tweaked how we present the results.

DID YOU KNOW THIS?

Though we're looking at mono laser printers here, models that print colour have plummeted in price in recent years. We'll be looking at them soon. Some printers wind the paper round a path to expose it to each CMYK toner; others line the colours up and pass the paper through only once.

MONO LASER PRINTERS / At a glance

	Brother HL-5370DW	Canon i-SENSYS LBP6300dn	HP LaserJet Pro P1606dn	Lexmark E260dn	Samsung ML-2855ND	Xerox Phaser 3250DN
Price	£229	£249	£177	£208	£147	£246
Website	www.brother.co.uk	www.canon.co.uk	www.hp.co.uk	www.lexmark.co.uk	www.samsung.com/uk	www.xerox.com
Resolution	1200x1200dpi	600x600dpi	600x600dpi	1200x1200dpi	1200x1200dpi	600x600dpi
Duplex print speed	1m 34s	1m 20s	1m 22s	1m 20s	1m 36s	1m 36s
Cost per page*	1.47p	2.48p	3p	3.35p	1.26p	1.54p
Monthly duty cycle	30,000	25,000	8,000	50,000	50,000	30,000
EnergyStar TEC †	2.5 kWh/week	2.03kWh/week	0.9 kWh/week	2.8 kWh/week	2.4 kWh/week	2.2 kWh/week
PostScript support	PostScript3	No	No	PostScript 3	PostScript 3	PostScript 3

* Toner only, based on official yields of high-capacity cartridges where possible, using manufacturer-suggested prices including VAT. Other consumables may be required.

† Figure quoted is for 115V; 240V is likely to be slightly higher.

The solid Samsung comes complete with a 'reassuring thunk'.

TEST ONE

Design

Good design isn't just about nice aesthetics

Let's deal with the easy bit first: how good does each product look and feel? Here, Brother scores low; it's not only lumpen and unstyled, but its plastics feel nasty and the hinges rattle. We originally thought HP had only sent us a toner cartridge, so small was the box the LaserJet Pro P1606dn came in. But while we applaud HP's attempts to create a design that's quite different to the standard shape, we're not convinced it works. Not only is the compactness of the main printer body immediately compromised as soon as you add the paper trays, but it doesn't feel especially robust.

The styling of the Xerox model may not appeal to everyone, but we like it, and everything's nice and chunky. It seems to share the same basic engine as the model from Samsung, which we like the most. Not only is it smart, with friendly rounded corners, but like the Phaser 3250DN, the paper drawer slots in with a reassuring 'thunk' and buttons don't wobble.

TEST RESULTS

Brother HL-5370DW	★★☆☆☆
Canon i-SENSYS LBP6300dn	★★★☆☆
HP LaserJet Pro P1606dn	★★★☆☆
Lexmark E260dn	★★★☆☆
Samsung ML-2855ND	★★★★★
Xerox Phaser 3250DN	★★★★☆

TEST TWO

Ease of use

How easy are these printers to set up and use?

We got a nasty surprise in this group; the Canon i-SENSYS LBP6300dn doesn't support DHCP. Normally, network devices use this system to ask a central hub what address they should identify themselves with, but the LBP6300dn has to have its address set manually. Worse, the utility didn't seem to do the trick, so we had to map an IP address to its MAC address using the Terminal (instructions provided). Just as frustrating, Mac drivers aren't included, and there's no Mac manual (you have to download them), but they weren't available when we tried, even though the printer was on sale.

The Canon driver puts controls in print dialogs in odd places too; in fairness, once it's set up, it's no more difficult to use than others.

Brother gets a big tick. Whether you're setting up over USB, Ethernet or even, Wi-Fi, its setup wizard is flawless. The LCD strip on the Samsung model is also great: you get proper messages, and can navigate printer menus.

TEST RESULTS

Brother HL-5370DW	★★★★★
Canon i-SENSYS LBP6300dn	★☆☆☆☆
HP LaserJet Pro P1606dn	★★★½☆
Lexmark E260dn	★★★☆☆
Samsung ML-2855ND	★★★★☆
Xerox Phaser 3250DN	★★★★☆

Back Cover
Toner
Drum
Paper
Status
Job Cancel
Go

You can set the Brother printer up over USB, Ethernet or Wi-Fi.

LASER VS INKJET / Why would you choose a laser printer?

The technical differences between how an inkjet, laser or even wax-based printer create an image on paper don't really matter, but it's worth understanding the strengths and weaknesses of the technologies when you buy a new printer.

Inkjet (or 'bubblejet') printers excel at producing polished, accurate images, especially when paired with photo paper. But while they're fine for text, anyone planning to output reams of the stuff should opt for laser.

Not only do laser printers usually produce crisper, darker text than inkjets, they're also less fussy about paper. Print onto 70gsm recycled office stock on an inkjet, and the results can be a bit soft, but a laser will produce superb results on almost anything.

Lasers are often much faster and cheaper to run than inkjets. Although they consume more electricity, energy bills are a tiny part of the ongoing costs compared to the costs of toners, drums and the like.

Inkjet printers are perfect for reproducing crisp clear images.

The Lexmark's relatively high price has put it out of the running in this category.

»TEST THREE

Price

Cheap to buy? Cheap to run? Let's find out…

Here, we're not just looking at the price of the printer, but its running costs. We calculated this by adding the cost of the printer to the cost of the toner necessary to print 10,000 pages (based on official prices), and the cost for electricity to run them for a year (based on Energy Star's Typical Energy Consumption figure, assuming a price of 12p for a kilowatt hour of electricity).

Prices and usage patterns will vary, and, we haven't factored in the cost of drums or fusers. But while our estimates don't tell the whole story, they're still useful.

Despite its competitive purchase price, the Lexmark E260dn's high power consumption and pricey toner actually mark it out as expensive. Similarly, though the HP model is very cheap to buy and has a low TEC, its expensive toner works against it.

The best result here goes to Samsung – though note that, as with the HP model, toner prices here are retail, not MSRP. It's also the cheapest to buy.

»TEST RESULTS

Brother HL-5370DW	★★★½☆
Canon i-SENSYS LBP6300dn	★★☆☆☆
HP LaserJet Pro P1606dn	★★½☆☆
Lexmark E260dn	★☆☆☆☆
Samsung ML-2855ND	★★★★★
Xerox Phaser 3250DN	★★★☆☆

»TEST FOUR

Print quality

Ultimately, these printers need to produce stellar results

The fact that everything's getting three or four stars in this category tells you that all the models in this group test are competent. In other words, while we would usually recommend you made a decision based on the output of a printer, in this case it's a poor metric.

There are variations, however, when we look at the printers' ability to output text and images.

Brother's HL-5370DW produced the best images; these of course weren't photo-quality, but they were at least clean, consistent and free from banding. (The HP model, on the other hand, created unappealingly flattened shades.)

The HL-5370DW's text was a little on the spindly side, but we prefer that over the splodgy, ill-formed text of the LaserJet Pro P1606dn. Best overall was the Samsung, with elegant, well-realised text and decent image output. Under a magnifying glass, its text is even better-defined than the Xerox model that appears to share the same engine.

»TEST RESULTS

Brother HL-5370DW	★★★★☆
Canon i-SENSYS LBP6300dn	★★★☆☆
HP LaserJet Pro P1606dn	★★★☆☆
Lexmark E260dn	★★★☆☆
Samsung ML-2855ND	★★★★☆
Xerox Phaser 3250DN	★★★★☆

The Canon performed an adequate job, but others were more outstanding.

»THE WINNER / Samsung ML-2855ND

Although Brother's model isn't pretty, it's easy to use, produces good prints, and is the only model here to include Wi-Fi. Text is a little spindly by default though.

The Lexmark's running costs knocks it out, as does Canon's setup procedure.

The winner, though, is Samsung's ML-2855ND. Its smart stylings and friendly rounded corners should see it integrating happily into many homes, home offices and small businesses, and it's the only model here that has a helpful screen to guide you through problems.

The real clincher, though, besides the high quality of the output, is the price. It's not only cheap to buy, but cheap to run, and in today's cautious economy, that's to be welcomed.

»FINAL RESULTS

Brother HL-5370DW	★★★★☆
Canon i-SENSYS LBP6300dn	★★½☆☆
HP LaserJet Pro P1606DN	★★★☆☆
Lexmark E260dn	★★½☆☆
Samsung ML-2855ND	★★★★★
Xerox Phaser 3250DN	★★★★☆

SAMSUNG
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Partners
2009 Overall Winner
Bragi J. Ingibergsson, Iceland

"The iPad comes in three sizes, and is available in a Wi-Fi only or Wi-Fi + 3G version"

» HOW TO BUY AN iPAD OR iPHONE P118

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Buyers' Guide

- DESKTOPS
- LAPTOPS
- iPADS
- iPODS
- iPHONES

Graham Barlow
Editor

We've got a re-vamped Buyers' Guide for you this month featuring the all-new iPad. Annoyingly, Apple still hadn't announced the UK pricing as we went to press, but you should be able to buy one in the UK as you're reading this.

Mobile devices aside, the Mac line-up is looking a bit long in the tooth, and we wouldn't be surprised if there were some updates to product lines like the MacBook, Mac mini and iMac very soon. Apple is probably waiting for the iPad fever to die down before announcing new updates, which would otherwise be lost in all the media attention surrounding the device. Of course, you might find that a new iPad fulfils all your needs, and while it's still an expensive device it's a lot less expensive than a new MacBook Pro. Read our review of the iPad 32GB Wi-Fi on page 86 this issue to see what we thought of it, and look out for possible Mac updates next issue.

» BUYING ADVICE YOU CAN TRUST

Our mission is to ensure that when you buy a Mac-related product, you are completely informed about its best and worst features. We have a cast-iron policy of editorial independence. **For the latest prices and full review see the TechRadar URL listed next to each review.**

How to buy a new Mac

Not sure which Mac to buy? We'll help you choose!

The iMac range currently comes in just two screen sizes - 21.5-inch and 27-inch.

» DID YOU KNOW THIS?

Wherever you buy from, consumer law is generally on your side. You can find detailed info at **www.consumerdirect.gov.uk** and **www.tradingstandards.gov.uk**.

Apple is unusual in selling its products every which way at once. You can buy a Mac direct from the online Apple Store (http://store.apple.com/uk); from one of the growing number of bricks-and-mortar Apple Stores around the country; from official 'Apple shops' within department stores, staffed by certified Apple Solutions Consultants; and from hundreds of independent Apple Authorised Resellers and Premium Resellers, variously selling online, on the high street or both.

The bigger independents buy direct from Apple, while others go through a network of distributors, listed at www.apple.com/uk/buy/distributors. Given this range of outlets, shopping around for your Mac could save you money – but probably not very much. There simply isn't much profit margin for independent dealers to knock off. The Mac's popularity means Apple doesn't have to leave a big gap between its wholesale prices and Apple Store prices – effectively the minimum and maximum level at which retailers can sell their wares.

The Mac Pro is the most configurable Mac. There's almost too many options!

Authorised Resellers may knock a few pounds off Apple Store prices, and can also sell you other kit at competitive prices. Although you may find fractionally lower prices online, by choosing a local dealer you could get the benefit of trying before you buy and having someone on hand to answer questions. Either way, Mac resellers tend to be very knowledgeable and keen to help.

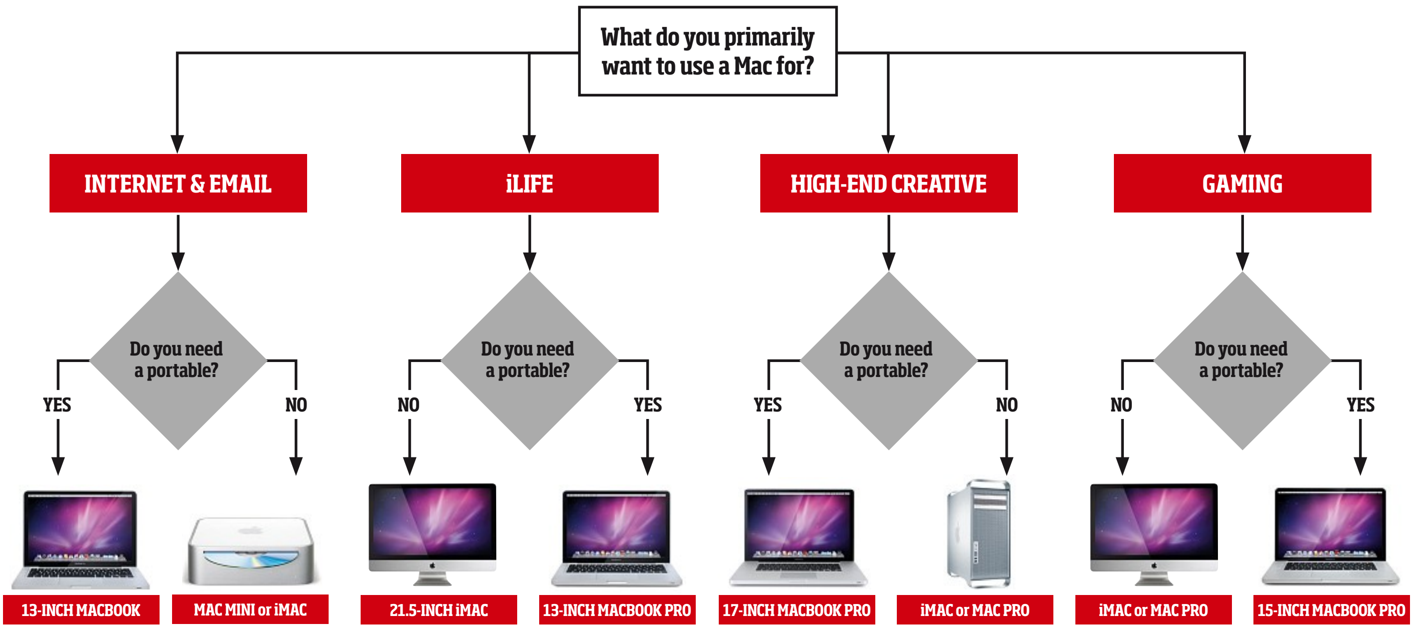
There are a couple of other ways to cut the cost of a new Mac. Business buyers can save a fortune by reclaiming the VAT and offsetting the purchase against tax. If you're not eligible, you may still qualify for a discount from Apple. Any student or teacher can get special pricing, as listed at www.apple.com/uk/education/store. That includes schoolkids. The reductions aren't huge, but they're worth having: for example, a dual-core 27-inch iMac lists for £1,295, compared to the regular price of £1,378. Authorised Resellers can access these special rates and may even shave a bit more off for you.

"Authorised Resellers may knock a few pounds off Apple Store prices, and you can also sell you other kit at competitive prices"

To help you find the cash, Apple also offers financing options. For consumers, this spreads the payments, though you do pay interest. For businesses, flexible leasing knocks more off your tax bill and lets you upgrade your hardware – and indeed software – when necessary without spending big chunks of capital. You can find out plenty more at www.apple.com/uk/financing.

Your budget will stretch even further with clearance, refurb and second-user deals. If you can suppress your envy of marginally newer, shinier kit, the best time to shop for a Mac is

CHOOSING A MAC / WHICH ONE IS RIGHT FOR YOU?



just after Apple brings out new models. Wander down to John Lewis and you're quite likely to find the last of the old range with three-figure reductions. Do check the specs against the incoming versions, which will offer more for the same original price, but at the bottom end of the range you could pay less than the current entry-level for a perfectly good machine. Anywhere that holds Macs in stock is similarly worth a raid, and online retailers also have clearance bins.

Slicing the Apple

Apple itself has a surprisingly little-known online bargain basement at http://store.apple.com/uk/browse/home/specialdeals/mac. It's a treasure trove of cut-price kit, with some clearance items and many described as 'refurbished'. This usually means someone's bought a Mac, then changed their mind or found a problem and sent it back. Industry insiders tell us these returns often have absolutely nothing wrong with them, and in any case they're fully tested and any faults fixed before they're resold. They're guaranteed for a full year and extendable up to three years via AppleCare.

Besides deciding who to buy from, there's the thorny question of which Mac to pick. You can have a MacBook, MacBook Pro, MacBook Air, Mac mini, iMac or Mac Pro. Within each range are several standard models, plus all of the built-to-order options, adding up to hundreds of possibilities.

By comparing the prices of different configurations – easily done at http://store.apple.com/uk – you can suss out the best value. For example, the entry-level 21.5-inch iMac is a bargain at £969. If you want a higher spec, the next option doubles the hard disk space and adds a more powerful graphics card – but at £256 extra, you'd really have to want that graphics card. But hang on: you're not limited to the preset models. By clicking the Select button, you can tweak the specs to create your own Mac. The only downside is that you'll need to allow a week or two for your own personal Mac to arrive. Just think of it as an exercise in delayed gratification.

The MacBook is so powerful, choosing between it and a MacBook Pro can be difficult.

> *"Apple itself has a surprisingly little-known online bargain basement that's a treasure trove for cut-price Macs and iPods"*

DID YOU KNOW THIS?

If goods are unfit for their purpose, not as described or unsatisfactory, you can and should 'reject' them and ask for a full refund.

How to choose the perfect Mac

Let us help you make the right purchase. Here are your options…

21.5-inch 3.06GHz
£969

- 3.06GHz Intel Core 2 Duo
- 21.5-inch glossy widescreen (1,920x1,080 pixels)
- 4GB RAM (2x 2GB DDR3 SDRAM) • 500GB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 memory • 4x USB 2.0 ports; 1x FireWire 800; 1xSD card
- Ships with Mac OS X Snow Leopard, iLife '09, Magic Mouse, keyboard

27-inch 3.06GHz
£1,378

- 3.06GHz Intel Core 2 Duo
- 27-inch glossy widescreen (2560x1440 pixels)
- 4GB RAM (2x 2GB DDR3 SDRAM) • 1TB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • ATI Radeon HD 4670 graphics, 256MB DDR3 memory • 4x USB 2.0 ports; 1x FireWire 800; 1xSD card; video-in port • Ships with Mac OS X Snow Leopard, iLife '09, Magic Mouse, keyboard

iMac

Updated October 2009

21.5-inch 3.06GHz
£1,225

- 3.06GHz Intel Core 2 Duo
- 21.5-inch glossy widescreen (1,920x1,080 pixels)
- 4GB RAM (2x 2GB DDR3 SDRAM) • 1TB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • ATI Radeon HD 4670 graphics, 256MB DDR3 memory • 4x USB 2.0 ports; 1x FireWire 800; 1xSD card
- Ships with Mac OS X Snow Leopard, iLife '09, Magic Mouse, keyboard

27-inch 2.66GHz (Quad Core) £1,634

- 2.66GHz Intel Core i5 Quad Core • 27-inch glossy widescreen (2560x1440 pixels) • 4GB RAM (2x 2GB DDR3 SDRAM) • 1TB hard drive • 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • ATI Radeon HD 4850 graphics, 512MB DDR3 memory • 4x USB 2.0 ports; 1x FW 800; 1xSD card; video-in port • Mac OS X Snow Leopard, iLife '09, Magic Mouse, keyboard

>> DID YOU KNOW THIS?

The high-end Mac mini now offers a 2.53GHz processor, 4GB of RAM and a 320GB hard drive.

2.26GHz 160GB
£510

- 2.26GHz Intel Core 2 Duo
- 2GB RAM (2x 1GB DDR3 SDRAM) • 160GB Serial ATA, 5,400 rpm hard drive
- 3MB shared L2 cache
- NVIDIA GeForce 9400M with 256MB of shared DDR3 SDRAM
- 8x double-layer SuperDrive (DVD+R DL/DVD±RW/CD-RW)
- AirPort Extreme (802.11n)
- 1x FireWire 800 port
- 5x USB 2.0 • Mac OS X Snow Leopard, iLife '09
- Mini-DVI to DVI adaptor

Updated October 2009

Mac mini

2.53GHz 320GB
£663

- 2.53GHz Intel Core 2 Duo
- 4GB RAM (2x 2GB DDR3 SDRAM) • 320GB Serial ATA, 5,400 rpm hard drive
- 3MB shared L2 cache
- NVIDIA GeForce 9400M with 256MB of shared DDR3 SDRAM
- 8x double-layer SuperDrive (DVD+R DL/DVD±RW/CD-RW)
- AirPort Extreme (802.11n)
- 1x FireWire 800 port
- 5x USB 2.0 • Mac OS X Snow Leopard, iLife '09
- Mini-DVI to DVI adaptor

Mac Pro

Updated March 2009

Quad-Core

£1,940

• 2.66GHz Quad-Core Intel Xeon • 3GB RAM (3x 1GB DDR3 ECC SDRAM) • NVIDIA GeForce GT 120 with 512MB of GDDR3 with Mini DisplayPort and dual-link DVI video output • 640GB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW) • 3x open full-length PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FireWire 800 ports • Keyboard & Mighty Mouse

8-Core

£2,553

• 2x 2.66GHz Quad-Core Intel Xeon • 6GB RAM (6x 1GB DDR3 ECC) • NVIDIA GeForce GT 120 with 512MB of GDDR3 with Mini DisplayPort and dual-link DVI video output • 640GB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD± RW/CD-RW) • 3x open full-length PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FireWire 800 ports • Keyboard & Mighty Mouse

MacBook Air

13-inch 1.86GHz

£1,174

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 1.86GHz Intel Core 2 Duo processor • 2GB DDR3 SDRAM • 120GB Serial ATA, 4,200rpm • Built-in 802.11n Wi-Fi and Bluetooth 2.1 + EDR • NVIDIA GeForce 9400M with 256MB shared DDR3 SDRAM • Mac OS X Snow Leopard • 1x USB 2.0 port • Mini DisplayPort • MagSafe power adaptor

13-inch 2.13GHz

£1,378

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.13GHz Intel Core 2 Duo processor • 2GB DDR3 SDRAM • 128GB solid-state drive • Built-in 802.11n Wi-Fi and Bluetooth 2.1 + EDR • NVIDIA GeForce 9400M with 256MB shared DDR3 SDRAM • Mac OS X Snow Leopard • 1x USB 2.0 port • Mini DisplayPort • MagSafe power adaptor

MacBook

13-inch white 2.26GHz

£816

• 13.3-inch glossy widescreen, 1,280x800 pixels • 2.26GHz Intel Core 2 Duo • 3MB shared L2 cache • 2GB RAM (2x DDR2SDRAM) • 250GB Serial ATA,5,400rpm • 8x SuperDrive (DVD±R DL/ DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB shared DDR3 SDRAM • AirPort Extreme • Built-in iSight video camera • Bluetooth 2.0

Updated October 2009

MacBook Pro

13-inch 2.26GHz

£918

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.26GHz Intel Core 2 Duo 3MB shared L2 cache • 2GB (2x 1GB DDR3 SDRAM) • 160GB, 5,400rpm Serial ATA • SuperDrive 8x (DVD±R DL/ DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 SDRAM • Precision aluminium unibody • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

13-inch 2.53GHz

£1,174

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.53GHz Intel Core 2 Duo 3MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 250GB, 5,400rpm Serial ATA • SuperDrive 8x (DVD±R DL/ DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 SDRAM • Precision aluminium unibody • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

15-inch 2.53GHz

£1,328

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.53GHz Intel Core 2 Duo 3MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 250GB, 5,400rpm Serial ATA • SuperDrive 8x (DVD±R DL/ DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB GDDR3 memory • Precision aluminium unibody • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

15-inch 2.66GHz

£1,531

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.53GHz Intel Core 2 Duo 3MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 320GB, 5,400rpm Serial ATA • SuperDrive 8x • NVIDIA GeForce 9400M with 256MB GDDR3 memory + 9600M GT with 256MB GDDR3 memory • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

15-inch 2.8GHz

£1,736

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.8GHz Intel Core 2 Duo 6MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 500GB, 5,400rpm Serial ATA • SuperDrive 8x • NVIDIA GeForce 9400M with 256MB GDDR3 memory + 9600M GT with 512MB GDDR3 memory • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card

17-inch 2.8GHz

£1,889

• 17-inch LED-backlit glossy widescreen 1,920x1,200 pixels • 2.8GHz Intel Core 2 Duo 6MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 500GB, 5,400rpm Serial ATA • SuperDrive 8x • NVIDIA GeForce 9400M with 256MB DDR3 SDRAM + 9600M GT with 512MB GDDR3 memory • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 3x USB 2.0, 1x ExpressCard/34 slot

What about an iPhone or iPad?

Apple's mobile devices are designed to sync perfectly with your Mac

»DID YOU KNOW THIS?

The iPad works in both portrait and landscape mode. Just turn the device to switch modes. There's also a lock button, so you can fix it to one view, which is useful when reading an ebook.

Both the iPhone and iPad have a touch screen, come with email and web browsing applications and are capable of running third-party apps that you can get from Apple's App Store, but the iPad isn't simply a bigger iPhone. The iPhone is first and foremost a phone, and unless you buy it on Pay & Go (which makes the device itself much more expensive) you're going to be tied into a phone contract when you buy (which is the same for all mobile phones). If you want all the features of the iPhone, but without the phone part, then consider getting an iPod touch instead (see over the page). If you're looking for a phone then you'll find the iPhone is designed to cover all your data needs while you're on the go, and fits into a jacket pocket with ease.

In contrast, the iPad is a device that sits somewhere between an iPhone and a Mac. It also comes with a 3G data contract option, but that doesn't include phone calls. The only phone calls you can make with it will be digitally, using VoIP apps like *Skype*.

While a lot of people find the iPhone to be perfectly acceptable for home use, if you just need to check your email or do a quick bit of web surfing then the iPad is positively designed to be used from your sofa. It has built-in Wi-Fi, which means you'll be able to check emails and browse the web on your network at home. Here it would fulfil most of the functions of a laptop Mac, but don't fall into the trap of thinking of the iPad as a replacement for a home computer - it's not. It's fundamentally designed to be an accessory. You're meant to keep your data on your Mac and sync your iPad with it, not the other way around.

It does have some big advantages over a Mac laptop though. For a start it's pretty much instant on – there's no waiting around for it to boot up. But not only that, it's lightweight, portable and the perfect size to be used as an ebook reader.

The iPhone currently comes in two different versions, the 3G and 3GS. The difference between the two models is that the more expensive 3GS is faster, has more storage, a longer battery life, voice control and a better camera capable of taking video as well as still shots. The iPhone used to be exclusively available on O2 in the UK, but is now also available through Orange and Vodafone.

The iPad comes in three memory sizes, 16GB, 32GB and 64GB, and is available in a Wi-Fi only or Wi-Fi + 3G version. The 3G version comes with a data plan, and while we're still waiting for official confirmation, it's not expected that the iPad will be exclusive to just one carrier in the UK. In the US it's available on AT&T only. We'll simply have to wait and see. ●

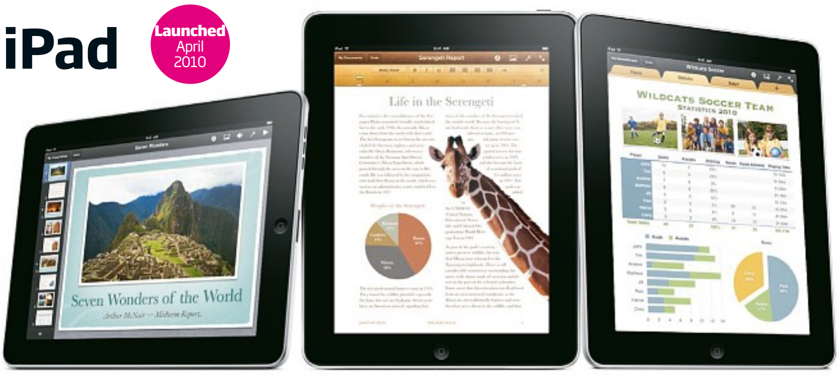
The iPad comes in Wi-Fi and 3G + Wi-Fi versions. The latter comes with an O2 contract.

"Don't fall into the trap of thinking that the iPad is simply a larger iPhone. Apple has created a whole new category of mobile device"

The mighty iPhone was the first Apple device to introduce a touch screen with Multi-Touch gestures.

iPad

Launched
April
2010



iPad 16GB

£TBA (Wi-Fi)
£TBA (Wi-Fi + 3G)

• 9.7-inch (diagonal) LED-backlit glossy widescreen •1024x768 pixels • 1GHz Apple A4 processor • Up to 10 hours surfing on Wi-Fi, watching video or listening to music. • 3.5mm stereo headphone jack •Built-in speaker • Microphone • 242.8x189.7x13.4mm • 68g (Wi-Fi model) •73g (Wi-Fi + 3G) • Requires Mac OS X 10.5.8 or later, USB 2.0 port

iPad 32GB

£TBA (Wi-Fi)
£TBA (Wi-Fi + 3G)

• 9.7-inch (diagonal) LED-backlit glossy widescreen •1024x768 pixels • 1GHz Apple A4 processor • Up to 10 hours surfing on Wi-Fi, watching video or listening to music. • 3.5mm stereo headphone jack •Built-in speaker • Microphone • 242.8x189.7x13.4mm • 68g (Wi-Fi model) •73g (Wi-Fi + 3G) • Requires Mac OS X 10.5.8 or later, USB 2.0 port

iPad 64GB

£TBA (Wi-Fi)
£TBA (Wi-Fi + 3G)

• 9.7-inch (diagonal) LED-backlit glossy widescreen •1024x768 pixels • 1GHz Apple A4 processor • Up to 10 hours surfing on Wi-Fi, watching video or listening to music. • 3.5mm stereo headphone jack •Built-in speaker • Microphone • 242.8x189.7x13.4mm • 68g (Wi-Fi model) •73g (Wi-Fi + 3G) • Requires Mac OS X 10.5.8 or later, USB 2.0 port

iPhone

Updated
June
2009

8 of 38
Cancel
Trim
Voice Control
call
play
shuffle
Cancel
315° NW

iPhone 3G 8GB

£349 (Pay & Go on O2)

• Available in black • 3.5-inch widescreen • 320x480 pixels • Wi-Fi (802.11b/g)• Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR Battery lasts up to 24 hours (audio) • Battery lasts up to 7 hours (video) • Battery lasts up to 10 hours (talktime) • 300 hours (standby) • 115.5x62.1x12.3mm • 133g • Requires Mac OS X 10.4.11 or later

iPhone 3GS 16GB

£449 (Pay & Go on O2)

• Available in black or white • 3.5-inch widescreen • 320x480 pixels • Wi-Fi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR • Photo and video geotagging • Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime) • 115.5x62.1x12.3mm • 135g • Requires Mac OS X 10.4.11 or later

iPhone 3GS 32GB

£549 (Pay & Go on O2)

• Available in black or white • 3.5-inch widescreen • 320x480 pixels • Wi-Fi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR • Photo and video geotagging • Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime) • 115.5x62.1x12.3mm • 135g • Requires Mac OS X 10.4.11 or later

>> APPS EVERYWHERE

The iPad, iPhone (and the iPod touch featured over the page) can all install and run apps from Apple's App Store. Many of these apps (like the Facebook app, or *NetNewsWire*) are free, but even the paid-for apps are inexpensive compared to the prices of software for the Mac. However, there's one obvious problem: The iPad has a 9.7-inch 1024x768 pixel screen, while the iPhone has a 3.5-inch 480x320 screen. Obviously, apps designed to run on the iPhone are going to look tiny on the iPad's larger screen. To make them fit, Apple has introduced something called 'pixel doubling'. Every pixel in the app is doubled, so the app becomes twice the size it was before, thus filling the screen (well, pretty much). You also have the option of running the app at its native resolution on the iPad if you prefer, although this can look strange as the app then sits in a sea of blackness. The pixel-doubling approach can make apps look a little bit fuzzy, especially games, but it appears to be a good enough solution for most apps.

Apple is, of course, encouraging developers to design apps specifically for the iPad's larger screen, so if you're an iPad owner look out for iPad-only versions of your favourite apps from the iPad App Store. Not only will they look better than their iPhone originals, but the larger screen size means developers can fit extra controls and features into the interface. That means more fun to be had in games, for example.

Some apps will only be available on the the iPad platform, without iPhone versions. Apple is starting the ball rolling here by releasing its *iWork* suite (consisting of *Pages*, *Numbers* and *Keynote*) for the iPad only. Conversely, apps that utilise the camera on the iPhone obviously won't work on the iPad. The vast majority of apps however will be completely cross-platform.

LAP 1/3
TIME 0:19.49
BEST
CORNER MASTERED
SLIPSTREAM
NISSAN

Many iPhone games have been redesigned to fully utilise the iPad's larger screen.

Choosing an iPod

There's an iPod for everyone

There's an iPod for every occasion. The shuffle is the perfect iPod to take to the gym with you, thanks to its handy lightweight clip-on case. There's no screen, but VoiceOver technology means you can hear the name of each track. The iPod nano is also lightweight enough for exercise, and features a colour screen, a video camera (but no still shots) and FM radio together with a larger capacity. If you really want to carry all your music around with you then you should opt for the chunkier iPod classic, which has a huge 160GB capacity. It can play videos, but it doesn't come with a video camera.

Finally there's the iPod touch. It's essentially an iPhone, but without the phone part. You can use it to connect to a Wi-Fi network for web browsing, email and more. And of course it runs apps form the App Store, so it's great for games. ●

iPod shuffle

Updated September 2009

iPod shuffle 2GB

£46

- Up to 500 songs
- No ability to display photos or videos
- Available in a range of colours
- No screen
- VoiceOver technology enables iPod to talk to you
- Battery lasts up to 10 hours (audio)
- 45.2x17.5x7.8mm
- 10.7g

iPod shuffle 4GB

£60

- Up to 1,000 songs
- No ability to display photos or videos
- Available in a range of colours
- No screen
- VoiceOver technology enables iPod to talk to you
- Battery lasts up to 10 hours (audio)
- 45.2x17.5x7.8mm
- 10.7g

iPod nano

Updated September 2009

iPod nano 8GB

£118

- Up to 2,000 songs
- Up to 7,000 photos
- Up to 8 hours of video
- Available in silver, black, purple, blue, green, yellow, orange, pink and PRODUCT (RED) • 2.2-inch diagonal screen • 320x240 pixels
- Battery lasts up to 24 hours (audio) or 4 hours (video)
- Includes camera & FM radio
- 90.7x38.7x6.2mm
- 36.8g

iPod nano 16GB

£138

- Up to 4,000 songs
- Up to 14,000 photos
- Up to 16 hours of video
- Available in silver, black, purple, blue, green, yellow, orange, pink and PRODUCT (RED) • 2.2-inch diagonal screen • 320x240 pixels
- Battery lasts up to 24 hours (audio) or 4 hours (video)
- Includes camera & FM radio
- 90.7x38.7x6.2mm
- 36.8g

iPod classic

Now Playing
2:20
iPod
Music
Videos
Photos
Podcasts
Extras
Settings
Shuffle Songs
Now Playing
MENU
MENU

Updated September 2009

iPod classic 160GB

£193

- Up to 40,000 songs
- Up to 25,000 photos
- Up to 200 hours of video
- Available in black and silver
- 2.5-inch screen
- 320x240 pixels
- Battery lasts up to 36 hours (audio)
- Battery lasts up to 6 hours (video)
- 103.5x61.8x10.5mm
- 140g

iPod touch

Updated September 2009

iPod touch 8GB

£152

- Up to 1,750 songs
- Up to 10,000 photos
- Up to 10 hours of video
- Available in black
- 3.5-inch screen
- 320x480 pixels
- Wi-Fi (802.11b/g)
- Nike + iPod support
- Battery lasts up to 22 hours (audio) • Battery lasts up to 5 hours (video)
- 110x61.8x8mm
- 120g

iPod touch 32GB

£234

- Up to 7,000 songs
- Up to 25,000 photos
- Up to 40 hours of video
- Available in black
- 3.5-inch screen
- 320x480 pixels
- Wi-Fi (802.11b/g)
- Nike + iPod support
- Battery lasts up to 22 hours (audio) • Battery lasts up to 5 hours (video)
- 110x61.8x8mm
- 120g

iPod touch 64GB

£306

- Up to 14,000 songs
- Up to 50,000 photos
- Up to 80 hours of video
- Available in black
- 3.5-inch screen
- 320x480 pixels
- Wi-Fi (802.11b/g)
- Nike + iPod support
- Battery lasts up to 22 hours (audio) • Battery lasts up to 5 hours (video)
- 110x61.8x8mm
- 120g

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FREE DISC INSIDE

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KEYBOARDS & MICE

Apple Wireless Keyboard

★★★★★

Price: £56 **Reviewed:** Issue 189
Web: www.apple.com/uk
Full review: www.techradar.com/53760
Key specs: Dimensions: 27x11.5x1.43cm; Connections: Bluetooth only; Power: 3x AA batteries; requires Mac OS X 10.4.10

+ Stunning; wireless; easy to type on; compact
− Needs Mac OS X 10.4.10 to work

"The Wireless Keyboard is superb in every way. It's another design classic from the Apple creative team."

Wacom Bamboo Fun Small ★★★★★

Price: £89 **Reviewed:** Issue 214
Full review: www.techradar.com/637575
Key specs: 1,024 pressure levels; Gestures
+ Gesture support, good software bundle
− Expensive

Macally mGlide ★★★★☆

Price: £28 **Reviewed:** Issue 212
Full review: www.techradar.com/619206
Key specs: Wireless operation; small form factor
+ Perfect match for your Apple keyboard
− It's a little small

PRINTERS & ALL-IN-ONES

Canon PIXMA MP640

★★★★★

Price: £187 **Reviewed**: Issue 215
Web: www.canon.co.uk
Full review: www.techradar.com/644919
Key specs: Printer (9,600x2,400dpi, 5-ink printing); supports all major memory card formats; on-body printing

+ Phenomenal feature package; great print quality
− Weak instructions might confuse newbies

"The mix of stellar print quality and an excellent feature package make the Canon MP640 a great buy."

HP Officejet Pro 8500 ★★★★☆

Price: £235 **Reviewed**: Issue 210
Full review: www.techradar.com/603509
Key specs: Printer/scanner/email; 4,800dpi
+ Packed with features; great text printing
− Average photo printing; expensive

Lexmark E260dn ★★★★☆

Price: £218 **Reviewed:** Issue 213
Full review: www.techradar.com/268952
Key specs: Mono laser printer
+ Cheap to run, easy setup and great text quality
− Simple feature set

DISPLAYS

Apple Cinema Display

★★★½☆

Price: £649 **Reviewed**: Issue 205
Web: www.apple.com/uk
Full review: www.techradar.com/500220
Key specs: 24-inch LED screen, 1,920x 1,200, 16.7 million colours, three self-powered USB ports, iSight camera

+ Beautiful colour reproduction; impressive sound; oozes quality
− Display stand needs revamping; only for Macs with Mini DisplayPort

"An incredible piece of kit for Macs with a Mini DisplayPort. Screen quality is first rate, with great consistency."

Samsung 2233SW ★★★★½

Price: £169 **Reviewed**: Issue 213
Full review: www.techradar.com/628604
Key specs: Low-cost SyncMaster monitor
+ Excellent value for money
− No speakers

Hanns G Hi221DP ★★★★☆

Price: £129 **Reviewed**: Issue 213
Full review: www.techradar.com/500421
Key specs: 22-inch widescreen, 1,680x1,050 res
+ A solid performer; good looking
− Terrible built-in audio

SPEAKERS/HEADPHONES

Sennheiser CX 300-II

★★★★★

Price: £25 **Reviewed**: Issue 207
Web: www.sennheiser.co.uk
Full review: www.techradar.com/562193
Key specs: Frequency response 19Hz-21KHz; Impedance 16Ω; Weight 4g; Extras: three sets of cups and carry pouch

+ Superb value; great audio at a bargain price
− Slightly flabby bass; there are better buds around, but not at this price

"We can't say it loudly or plainly enough: buy a set of Sennheiser CX 300-II. Accomplished sound, and cheap."

Revo Blok ★★★★½

Price: £175 **Reviewed**: Issue 209
Full review: www.techradar.com/593649
Key specs: Aux input for all recent iPods
+ Rich, deep sound; excellent remote
− Not for iPhone; can't sync with Mac

Altec Octiv AIR M812 ★★★★☆

Price: £262 **Reviewed**: Issue 214
Full review: www.techradar.com/638130
Key specs: Wireless; iPod dock; FM tuner; Aux
+ Polished, rounded sound; very stylish
− Could play nicer with an iPhone

DIGITAL CAMERAS

Canon EOS 500D

★★★★☆

Price: £570 (body) **Reviewed:** Issue 209
Web: www.canon.co.uk
Full review: www.techradar.com/596771
Key specs: 15.1MP; 4,752x3,168 res; HD recording; Card formats: SD, SDHC; File formats: JPEG, RAW.

⊕ Increased ISO sensor; HD DV recording; 3-inch LCD
⊖ High price; no external mic socket for video

"If you're happy to pay for the privilege of high-quality movies, this EOS is a great buy."

Olympus µ Tough 8000 ★★★★☆

Price: £255 **Reviewed:** Issue 210
Full review: www.techradar.com/603073
Key specs: 12MP; 5-18.2mm lens
⊕ Waterproof to 10m; shockproof; good wide angle
⊖ Controls are awkward to use

Samsung ST1000 ★★★★½

Price: £235 **Reviewed:** Issue 215
Full review: www.techradar.com/644939
Key specs: OS X 10.4 or later
⊕ Good pics and movies; great GPS
⊖ Too expensive

DIGITAL VIDEO CAMERAS

Samsung VP-HMX 20C

★★★★☆

Price: £375 **Reviewed:** Issue 202
Web: www.samsung.com/uk
Full review: www.techradar.com/528224
Key specs: 2.7-inch LCD; movie capture at 2.1MP and still image at up to 4MP; HD lens delivering 10x optical and 10x digital zoom

⊕ Good screen; lightweight; offers full HD resolution
⊖ Really need to shop around to find affordable price

"This lightweight HD camera captures high-quality video and still images. Its 80GB internal memory is a plus point."

Canon HV30 ★★★★½

Price: £1000 **Reviewed:** Issue 201
Full review: www.techradar.com/468942
Key specs: HDV; DIGIC II processor; MiniDV/SD card
⊕ Superb stills and video; better than HDD
⊖ Cumbersome to use

Panasonic SDR-S26 ★★★☆☆

Price: £164 **Reviewed:** Issue 207
Full review: www.techradar.com/561668
Key specs: Sensor: 1/8 inch CCD; Compression: MPEG-2
⊕ Small enough to fit in coat pocket
⊖ Files need converting to play on Mac

ROUTERS/NETWORKING

AVM FRITZ!Box 7270

★★★★★

Price: £160 **Reviewed:** Issue 212
Web: www.fritzbox.eu
Full review: www.techradar.com/621127
Key specs: 1x USB 2.0, 4x Ethernet, 1x WAN; 802.11n; modem supports ADSL and ADSL2; integrated DECT base station

⊕ Packed with features, including impressive array of telephony functions
⊖ No simultaneous dual band

"The router's advanced traffic-shaping feature really impressed. An extremely high quality piece of kit."

Iomega Home Media ★★★★☆

Price: £97 **Reviewed:** Issue 207
Full review: www.techradar.com/577291
Key specs: 500GB; 1x Gigabit Ethernet; 1x USB 2.0
⊕ Easy to set up and use; elegant interface
⊖ Can't set up playlists

Billion BiPAC P104 ★★★★☆

Price: £77 **Reviewed:** Issue 207
Full review: www.techradar.com/560834
Key specs: Transfer rate up to 200Mbps
⊕ Great alternative to Wi-Fi
⊖ Bulky, though this is inevitable

STORAGE

My Book Studio II 4TB

★★★★½

Price: £410 **Reviewed:** Issue 212
Web: www.wdc.com
Full review: www.techradar.com/618319
Key specs: 4TB; USB 2.0, FireWire 400/800 and eSATA connectivity; can be reconfigured to different RAID settings

⊕ Four terabytes; triple interface
⊖ Not exactly cheap; chassis is a little flimsy

"Impressive performance and connection for those who need extra space. Pleasantly styled and easy on the eye."

Buffalo Dualie 500GB ★★★★½

Price: £199 **Reviewed:** Issue 220
Full review: www.techradar.com/678951
Key specs: USB 2.0 and FireWire connectivity
⊕ Attractive, robust, space-saving design
⊖ Expensive; drive slows when iPhone docked

Apple Time Capsule 2TB ★★★★☆

Price: £388 **Reviewed:** Issue 213
Full review: www.techradar.com/629850
Key specs: 1x USB 2.0, 3x Ethernet, 1x WAN
⊕ Simultaneous dual band; high capacity
⊖ No built-in modem

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HOME OFFICE

Apple iWork '09

★★★★☆

Price: £69 **Reviewed**: Issue 205
Web: www.apple.com/uk
Full review: www.techradar.com/500293
System reqs: G4 (500MHz or faster) processor, Mac OS X 10.4.11 or later, 512MB RAM (1GB recommended)

⊕ Keynote is a market leader, and the rest of the apps are catching up
⊖ Both Numbers and Pages still lack some basic features

"The '09 update sees some good features added and some general improvements. Worth it for Keynote alone."

APP4MAC Twin 1.01 ★★★★★

Price: £25 **Reviewed**: Issue 211
Full review: www.techradar.com/611922
System reqs: Power PC G4, G5/Intel Mac
⊕ Back up to multiple destinations; easy to use
⊖ None

FileMaker Bento 3 ★★★★☆

Price: £30 **Reviewed:** Issue 215
Full review: www.techradar.com/644983
System reqs: OS X 10.5.7 or later
⊕ iPhoto integration; password security
⊖ Layout tools still a little inflexible

VISUAL TOOLS & LAYOUT

Photoshop Elements 8

★★★★½

Price: £75 **Reviewed**: Issue 215
Web: www.adobe.com
Full review: www.techradar.com/644205
System reqs: Mac OS X 10.4.11 or higher; 1GB hard drive space; 512MB RAM (1GB recommended)

⊕ Great Recompose tool, smart brush for special effects, Scene Cleaner
⊖ Intel-only, interface a little gloomy

"Lots of exciting tools, offering virtually all the controls you need at a truly affordable price."

BeLight Printfolio ★★★★½

Price: £49 **Reviewed**: Issue 208
Full review: www.techradar.com/589659
System reqs: Mac OS X 10.4 or later
⊕ Comprehensive range of user-friendly apps
⊖ Not great at exporting between them

Apple Aperture 3 ★★★★½

Price: £169 (£79 upgrade) **Reviewed:** Issue 220
Full review: www.techradar.com/678985
System reqs: 10.5.8 or later, Intel Mac, 1GB RAM
⊕ Strong export options and raw handling
⊖ No help migrating from Lightroom

SYSTEM UTILITIES

iStat Menus 2

★★★★★

Price: Free **Reviewed:** Issue 215
Web: www.islayer.com
Full review: www.techradar.com/645026
System reqs: OS X 10.5 or later (Verstion 1.3 is Tiger-compatible, and still available from iSlayer's website)

⊕ Flexible, stable and useful; great date and time; light on resources
⊖ Gradient-happy interface

"Robust, stable and well behaved. An essential Mac add-on, even if you only use a few of its components."

Prosoft Drive Genius 2 ★★★★½

Price: £79 **Reviewed:** Issue 208
Full review: www.techradar.com/589923
System reqs: G4, G5 or Intel; OS X 10.4.9 or later
⊕ Comprenhensive set of tools
⊖ RAID not supported

AppZapper 2 ★★★★☆

Price: £8 **Reviewed:** Issue 219
Full review: www.techradar.com/671038
System reqs: OS X 10.6
⊕ Good serial manager; completely uninstalls apps
⊖ Free applications do a similar job

MULTIMEDIA SOFTWARE

Apple iPhoto '09

★★★★★

Price: £71 (iLife '09) **Reviewed:** Issue 206
Web: www.apple.com/uk
Full review: www.techradar.com/527969
System reqs: PowerPC G4 or G5, or any Intel Mac; 512MB RAM (1GB recommended); Mac OS X 10.5.6 or later; 4GB HDD space

⊕ Practical tools, new options to export slideshow, Places a useful addition
⊖ Faces could be better, few cameras have GPS

"The new features are great, but there's some room for improvement in the Faces facial-recognition facility."

Apple Logic Studio ★★★★★

Price: £408 **Reviewed:** Issue 213
Full review: www.techradar.com/625541
System reqs: Intel Mac; 1GB RAM; Mac OS X 10.5.7
⊕ Powerful music studio; great tools; good value
⊖ Some minor bugs in the initial release

Anime Studio Debut 6 ★★★★☆

Price: £40 **Reviewed**: Issue 211
Full review: www.techradar.com/611940
System reqs: G4+; 256MB RAM; OS X 10.4
⊕ Excellent features and tutorials
⊖ No texture mapping or lighting

Mac FORMAT

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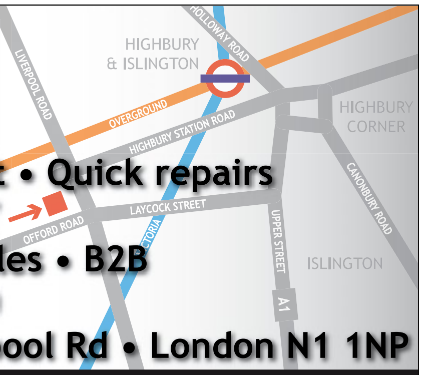
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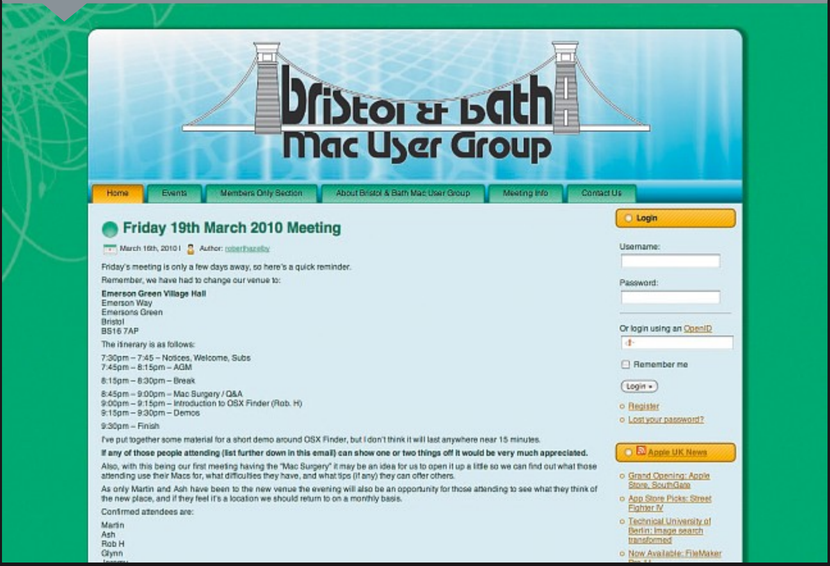

Friday 19th March 2010 Meeting

March 16th, 2010 | Author: roberthazelby

Friday's meeting is only a few days away, so here's a quick reminder.

Remember, we have had to change our venue to:

Emerson Green Village Hall
Emerson Way
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The itinerary is as follows:

7:30pm – 7:45 – Notices, Welcome, Subs
7:45pm – 8:15pm – AGM
8:15pm – 8:30pm – Break
8:45pm – 9:00pm – Mac Surgery / Q&A
9:00pm – 9:15pm – Introduction to OSX Finder (Rob. H)
9:15pm – 9:30pm – Demos
9:30pm – Finish

I've put together some material for a short demo around OSX Finder, but I don't think it will last anywhere near 15 minutes.

If any of those people attending (list further down in this email) can show one or two things off it would be very much appreciated.

Also, with this being our first meeting having the "Mac Surgery" it may be an idea for us to open it up a little so we can find out what those attending use their Macs for, what difficulties they have, and what tips (if any) they can offer others.

As only Martin and Ash have been to the new venue the evening will also be an opportunity for those attending to see what they think of the new place, and if they feel it's a location we should return to on a monthly basis.

Confirmed attendees are:

Martin
Ash
Rob H
Glynn

Started by *MacFormat*'s very own editorial team and handed over to be run by its members many moons ago, the local Bristol & Bath Mac User Group has always been close to our heart. The BBMug (**http://bbmug.co.uk**) meets once a month at Emerson Green Villiage Hall in Bristol, and once every three months at the Apple Store in Bristol's Cabot Circus shopping centre. The group has recently instigated a 'Mac surgery' for fixing problems at each meeting. A joining fee and a small meeting fee are payable. ●

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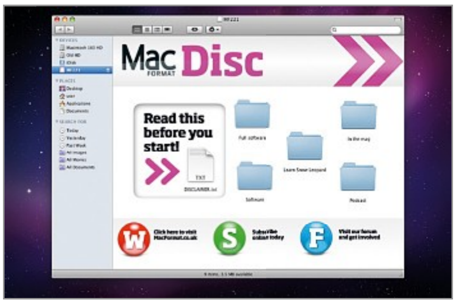

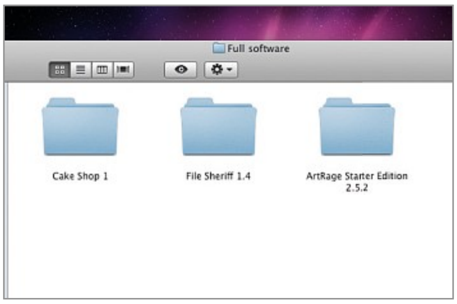

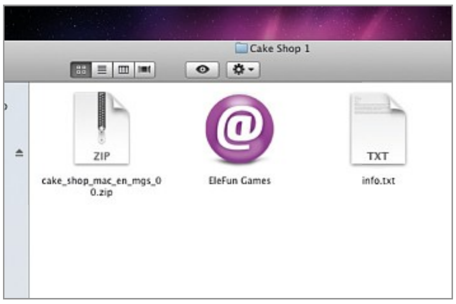

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Interface
- Interface requires OS X.
- Some programs may require free registration over the internet or phone.
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